

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: GWEN LIANG Examiner #: 79180 Date: 1-5-04
 Art Unit: 2172 Phone Number 305-3985 Serial Number: 0916-6,965
 Mail Box and Bldg/Room Location: CPK II 4B25 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Component Management System

Inventors (please provide full names): OHASHI, Tadashi

Earliest Priority Filing Date: 09/27/99

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Concept: The invention relates to a component management system for integrally managing components (such as a hardware drawing, a firmware drawing, a document, a source code, a specification) for manufacturing a device. (also see attachment A)

Motivation: (See attachment B)

Drawing: Fig 2 (See attachment C)

Claim: 1 (focus on 1-2)

* Assignee: FUJITSU Limited

STAFF USE ONLY

Searcher: Geoffrey St. Lager

Searcher Phone #: 308-7800

Searcher Location: 4B30

Date Searcher Picked Up: 1/6/4

Date Completed: 1/13/4

Searcher Prep. & Review Time: 60

Clerical Prep Time: 12

Online Time: 300

Type of Search

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) _____

Bibliographic ☒

Litigation _____

Fulltext ☒

Patent Family _____

Other _____

Vendors and cost where applicable

STN _____

Dialog ☒

Questel/Orbit _____

Dr.Link _____

Lexis/Nexis _____

Sequence Systems _____

WWW/Internet _____

Other (specify) _____

June 4, 2003

Dear Ms. Liang,

Attached please find the results of your search request for application #09/626,965. I searched Dialog's foreign patent files, technical databases, product announcement files and general files; along with ACM and the Internet.

Please let me know if you have any questions.

Regards,

A handwritten signature in cursive script, appearing to read "Geoffrey St. Leger".

Geoffrey St. Leger
4B30/308-7800



STIC Search Report

EIC 2100

STIC Database Tracking Number: 111398

TO: Gwen Liang
Location:
Art Unit : 2172
Tuesday, January 13, 2004

Case Serial Number: 09626965

From: Geoffrey St. Leger
Location: EIC 2100
PK2-4B30
Phone: 308-7800

geoffrey.stleger@uspto.gov

Search Notes

Dear Examiner Liang,

Attached please find the results of your search request for application 09626965. I searched Dialog's foreign patent files, product announcement files and general files.

Please let me know if you have any questions.

Regards,

Geoffrey St. Leger
4B30/308-7800

File 275:Gale Group Computer DB(TM) 1983-2004/Jan 13
 (c) 2004 The Gale Group
 File 621:Gale Group New Prod.Annou.(R) 1985-2004/Jan 13
 (c) 2004 The Gale Group
 File 636:Gale Group Newsletter DB(TM) 1987-2004/Jan 13
 (c) 2004 The Gale Group
 File 16:Gale Group PROMT(R) 1990-2004/Jan 13
 (c) 2004 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 148:Gale Group Trade & Industry DB 1976-2004/Jan 13
 (c)2004 The Gale Group
 File 624:McGraw-Hill Publications 1985-2004/Jan 12
 (c) 2004 McGraw-Hill Co. Inc
 File 15:ABI/Inform(R) 1971-2004/Jan 10
 (c) 2004 ProQuest Info&Learning
 File 647:CMP Computer Fulltext 1988-2004/Jan W1
 (c) 2004 CMP Media, LLC
 File 674:Computer News Fulltext 1989-2004/Jan W1
 (c) 2004 IDG Communications
 File 696:DIALOG Telecom. Newsletters 1995-2004/Jan 12
 (c) 2004 The Dialog Corp.
 File 369:New Scientist 1994-2004/Jan W1
 (c) 2004 Reed Business Information Ltd.
 File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
 File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
 File 610:Business Wire 1999-2004/Jan 13
 (c) 2004 Business Wire.
 File 613:PR Newswire 1999-2004/Jan 13
 (c) 2004 PR Newswire Association Inc

Set	Items	Description
S1	318675	(DRAWING? ? OR SCHEMATIC? ? OR BLUEPRINT? ? OR DESIGN? ? OR DIAGRAM? ? OR SKETCH OR SKETCHES) (5N) (HARDWARE OR DEVICE? ? - OR PARTS OR MODULE? ? OR ASSEMBLIES OR SUBASSEMBLIES OR UNIT - OR UNITS OR MACHINE? ? OR CIRCUIT? ?)
S2	507542	(DRAWING? ? OR SCHEMATIC? ? OR BLUEPRINT? ? OR DESIGN? ? OR DIAGRAM? ? OR SKETCH OR SKETCHES) (5N) (SEMICONDUCTOR? ? OR COMPONENT? ? OR COMPUTER? ? OR PC OR PCS OR WORKSTATION? ? OR WORK()STATION? ? OR TERMINAL? ?)
S3	115138	FIRMWARE OR FIRM()WARE OR EMBEDDED() (CHIP? ? OR MICROCHIP? ? OR PART? ? OR ELEMENT? ? OR MODULE? ? OR HARDWARE OR SOFTWARE OR SYSTEM? ?)
S4	6845349	PROGRAM? ? OR (SOURCE OR APPLICATION) ()CODE? ?
S5	3041630	SPECIFICATION? ? OR REQUIREMENT? ? OR DESIGN()DOCUMENT? ?
S6	4362372	CONTRACT? ? OR PURCHAS??? (3N) (ORDER? ? OR AGREEMENT? ?)
S7	2361279	DATABASE? ? OR DATA()BASE? ? OR REPOSITOR??? OR KNOWLEDGE(-)BASE? ? OR KNOWLEDGEBASE? ? OR ARCHIVE? ?
S8	9416	S7(10N)S1:S2
S9	1	S1:S2(S)S3(S)S4(S)S5(S)S6(S)S7
S10	4980	S7(S)S1:S2(S)S3:S6
S11	2039	S7(10N)S1:S2(10N)S3:S6
S12	24896	(DRAWING? ? OR SCHEMATIC? ? OR BLUEPRINT? ? OR DIAGRAM? ? - OR SKETCH OR SKETCHES) (5N) (HARDWARE OR DEVICE? ? OR PARTS OR - ASSEMBLIES OR SUBASSEMBLIES OR UNIT OR UNITS OR MACHINE? ? OR CIRCUIT? ?)
S13	23798	(DRAWING? ? OR SCHEMATIC? ? OR BLUEPRINT? ? OR DIAGRAM? ? - OR SKETCH OR SKETCHES) (5N) (SEMICONDUCTOR? ? OR COMPONENT? ? OR COMPUTER? ? OR PC OR PCS OR WORKSTATION? ? OR WORK()STATION? ? OR TERMINAL? ?)
S14	1162	S7(10N)S12:S13
S15	313	S7(10N)S12:S13(10N)S3:S6
S16	275	S15 NOT PY=2000:2003
S17	0	S7(10N)S12:S13(10N)S3
S18	7	S7(S)S12:S13(S)S3
S19	4	RD (unique items)

S20	209	S7(10N)S12:S13(10N)S4
S21	103	S7(10N)S12:S13(10N)S5:S6
S22	70	RD (unique items)
S23	57	S22 NOT PY=2000:2003
S24	15300	S7(10N)S6
S25	2828	S7(10N)S6(10N)S3:S5
S26	166965	PURCHAS???() (ORDER? ? OR AGREEMENT? ?)
S27	172	S7(10N)S26(10N)S3:S5
S28	107	RD (unique items)
S29	89	S28 NOT PY=2000:2003
S30	0	S29(S)S3
S31	34	S29(S)S5
S32	13	S7(S)S12:S13(S)S26
S33	7	RD (unique items)
S34	512	S7(S)S3(S) (S12:S13 OR S4:S6)
S35	148	S7(10N)S3(10N) (S12:S13 OR S4:S5 OR S26)
S36	63	RD (unique items)
S37	34	S36 NOT (S23 OR S31 OR S33 OR PY=2000:2003)
S38	91462	SOURCE()CODE
S39	71	S7(20N)S38(20N) (S26 OR S3 OR S12:S13)
S40	39	RD (unique items)
S41	27	S40 NOT PY=2000:2003

23/9/21 (Item 2 from file: 621)
DIALOG(R) File 621:Gale Group New Prod.Annou.(R)
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01560380 Supplier Number: 47908429 (THIS IS THE FULLTEXT)

Boeing Upgrades On-Line Maintenance Information Service

PR Newswire, p0813SFW025

August 13, 1997

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 358

TEXT:

SEATTLE, Aug. 13 /PRNewswire/ -- The newest version of an innovative on-line information service for aircraft maintenance offers operators of Boeing jetliners better access to more data, setting the stage for future "one-stop shopping."

Boeing On-Line Data (BOLD) provides direct access to Boeing **databases** containing digitized technical **drawings**, service bulletins, Boeing **Component Maintenance Manuals**, and **specifications** for parts and materials. **Databases** are updated daily, freeing users from managing huge quantities of documents, including thousands of file cards containing microfilmed drawings.

The new, upgraded version of this service offers several enhancements requested by current users. New features include better user control of access to data, expanded search capabilities and the addition of supplier component maintenance manuals. Like the earlier version, the enhanced BOLD is accessed on standard computer workstations linked to high-speed, wide-area-network providers such as SITA, an aerospace industry service.

Boeing began offering on-line access to aircraft technical drawings in 1995, becoming the first airframe manufacturer to do so. Since then, Boeing has made more and more of its digitized maintenance information available over a global network delivery system.

"The new BOLD offering puts us closer to the day when our customers will be able to get all the data they need to operate their Boeing aircraft through a single network connection," said Rich Higgins, director of Technical Data Products and Services. "Eventually we won't need to send out revisions on paper, microfilm or even on digital media such as compact disks because all changes will be available on-line in real time."

To date, 31 airlines and repair agencies are BOLD customers, with 50 others in contract negotiations for the service. Future plans for BOLD include adding data for airplanes built by the Douglas Products Division.

23/9/35 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
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01579550

'Sim/Config' program fits IBM environment.
MIS WEEK March 9, 1987 p. 44

Simware's new Sim/Config software offers a built-in hardware device specification database. In the database, there is information about the physical attributes and connectivity rules to 500 of IBM's plug-compatible hardware devices. The new software produces schematics representing IBM PC, /AT, /XT, and compatible computers, DASD, terminals, modems, printers, and others. The database contains a listing-per-device of connectivity rules, operational parameters, footprint, and other specifications.

COMPANY:

*Simware

PRODUCT: *Applications Software NEC (ex Micro) (7372390)

EVENT: *Product Design & Development (33)

COUNTRY: *United States (1USA)

23/9/2 (Item 2 from file: 275)
DIALOG(R) File 275:Gale Group Computer DB(TM)
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01777611 SUPPLIER NUMBER: 16864532 (THIS IS THE FULL TEXT)

Tool integration issues weaken repository efforts to stand alone.

(integrating application development tools into repositories)

Hanna, Mary

Software Magazine, v15, n4, p39(6)

April, 1995

ISSN: 0897-8085

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2828

LINE COUNT: 00244

ABSTRACT: Repositories are intended to put the various application development tools used in an organization into some kind of order; they provide a central place to store and share models, code, and other objects connected with development. Team development efforts are facilitated by the ability of repositories to support change control operations, including versioning, configuration management, and check-in/out. Repository development is accepted and easily assimilated at the department level, but some question whether repositories can succeed at the enterprise level. Executing applications in most IS shops come from various sources, and the standards and conventions used in one application usually do not extend to software used elsewhere in the enterprise. Standalone repositories able to offer the flexibility this requires are not supported in most organizations because of the scope such projects require. Several repository-based development tools are described.

TEXT:

The tools on top are one reason that repository use remains mainly departmental. Standalones, designed to handle enterprise-wide data, typically have problems with tool integration, and a repository interface standard has been elusive.

Under the covers of most software development tools lies a repository. The repository is designed to bring order to the chaos of application development. It offers a central place to store and share models, code and other objects connected with a development effort. Its ability to support change control operations - versioning, configuration management and, check-in/out - eases team development efforts.

At the departmental level, the development repository is accepted and easily assimilated. But, many question whether repositories can succeed at the enterprise level.

Today's enterprises are fluid entities - expanding and contracting, merging and divesting, moving quickly in and out of products and services. In a typical IS shop, the executing applications come from many sources: purchased packages, company takeovers, consultant-written code and in-house-developed software. The standards, naming conventions, methodology, models and procedures that exist in one set of applications usually do not extend across all software in the enterprise.

Supporting this diversity demands a great deal of flexibility. Some observers feel this need is one a repository should be able to fill. Said Anu Shukla, the Alameda, Calif.-based vice president of worldwide marketing for Compuware Corp., "In client/server environments where applications are distributed and deployed in multiple remote sites, the repository is comforting because it is a central location that can preserve the integrity and logic of the application."

Yet the large standalone repositories with the depth necessary to play this role have captured neither the staffing commitment nor the backing of senior corporate management. Financial considerations certainly play a part. And, say some observers, huge corporations are typically so "divisionalized" that a repository designed to handle enterprisewide data might not be worth the implementation effort.

Such an effort, says David Eddy, is not for the fainthearted. Eddy, an independent marketing consultant and principal of Software Sales Group, in Needham, Mass., identifies two major challenges faced by implementors of enter rise-wide repositories: populating the repository with the existing legacy applications, and keeping the repository up to date after initial loading.

"The enterprise-wide repository must be kept synchronized with the executing application and the changes that affect it. This is a difficult and usually discouraging task," said Eddy. Without commitment from senior management, he said, attempts to implement an enterprise-wide repository can be futile.

Marc Sokol, vice president of product strategy at Computer Associates (CA) International Inc., Islandia, N.Y., agrees. "Corporate-wide repositories require a huge management involvement because it is so difficult for corporate IS groups to agree on standardized forms and data models."

And for upper management, dollars can be the deciding factor in IT decisions. It is no surprise that large corporations are reluctant to buy into the idea of an enterprise-wide repository, as the associated costs are high and continue beyond initial purchase throughout the life of the product. Indeed, said Sokol, despite the existence of several companies offering standalone repositories, like R&O Software Inc., Walnut Creek, Calif., Reltech Group Inc., Arlington, Va., and Brownstone Solutions Inc., New York City, larger firms are moving slowly in this area. Before they invest heavily in the technology, they want to be sure that the repository they choose to implement will last for a long time."

Perhaps one of the reasons that enterprise repositories have not taken hold is that large organizations simply do not operate as integrated, unified entities, ventured Steven Fisch, president of International Software Group (ISG) Inc., Waltham, Mass. "They frequently act as individual departments with their own budgets and their own agendas, much like smokestack organizations," he said. "Furthermore, department managers don't easily transfer their resources to a central function; a centralized repository can only be implemented at the demand of a strong chief executive." Even then, he said, "the repository may only be used as a reference source, not as an interactive constraining entity that everything must pass through."

Of those who have chosen to implement enterprise-level repositories, large organizations make up the majority, said John Lewis, founder of Ipsys Software, a largescale repository vendor with U.S. headquarters in San Francisco. Lewis explained that corporate-wide repositories tend to be most valuable to those firms with developers in geographically distributed sites. These organizations, said Lewis, are the marketing targets of standalone repository suppliers. "Ipsys' repository is very expensive, so it only goes into fairly sophisticated organizations that already use a number of tools," said Lewis.

The difficulty involved with getting these tools to work together, though, can cripple a repository effort, Lewis continued. "Standalone repositories usually do not have many tools integrated with them," he said. "Repository standards that would define tools interfaces are only just emerging." One possible answer in this area is the Portable Common Tool Environment (PCTE), which offers a standard for tool integration.

PCTE has been adopted by a number of European organizations as well as the U.S. Department of Defense, but it has not yet been embraced by U.S. commercial vendors, who claim the standard is still too immature for inclusion in their products. Therefore, said Lewis, "the integration to a large number of tools ends up being supplied by the repository vendor."

Ipsys offers a scalable repository that integrates not only its own toolset, but also provides "transformations" between such tools as the Bachman toolset from Bachman Information Systems Inc., Burlington, Mass.; Application Development Workbench (ADW) from Sterling Software Inc., Dallas; ObjectTeam and Teamwork from Cadre Technologies Inc., Providence, R.I., and various documentation tools. It is Unix-based and is being positioned as a tool for client/server projects in downsizing corporations.

One large corporation implementing a standalone repository is Countrywide Funding Corp., Pasadena, Calif., a mortgage servicing company. Countrywide is experiencing such continued growth that its staffing level has more than tripled in less than two years.

Countrywide Funding is overhauling its 13-year old AS/400-centric systems. "We expect to be servicing 1.3 million loans by December 1995 so we need to continue to decrease costs and improve service levels," said John Richardson, the Simi Valley, Calif.-based executive director of the loan administration system development group.

Said Richardson, "Our plan consists of three parts: implementation of

a repository, installation of an automated methodology LBMS's PE/Process Manager], and implementation of a development environment that provides model-driven development using Case tools." The Case tools are Sterling Software's ADW planning, design, analysis and construction suite.

Countrywide is in the process of implementing the Rochade repository from R&O Software. "For us, the repository's main purpose or cost-justification is its impact analysis ability. A programmer can develop a scanner program that can also load data into the repository and perform cross-platform analysis on it. The repository also permits the tying of ADW's models to their coded programs," said Richardson.

The need to manage very large amounts of data from multiple sources justifies a large-scale repository for some organizations. The Missouri State Highway Patrol in Jefferson City is using Information Engineering Facility (IEF) from Texas Inc., Plano, Texas, to develop an enterprise-wide application to consolidate the activities of nine troops.

"We are consolidating over 100 applications that support the Highway Patrol. Our goal is to eliminate redundant data and duplicate processes," said Larry Lueckenhoff, systems development manager. "In particular, we are focused on developing a master name index that will contain all references to an individual including traffic tickets, criminal arrests, warrants and the like."

The development team conducted joint application development (JAD) sessions to define the high-level architecture needed to support their new goals. They then came up with a strategic plan to determine data needs and the data structure or model needed to support the various business areas, Lueckenhoff said. "Our plan calls for one central repository that contains the corporate model. The different project teams are working with their own project model, which consists of pieces from the corporate model as well as project-specific information."

In this effort, he added, "IEFS central encyclopedia, or repository, is an absolute necessity for us. It captures and stores as objects the analytical data, matrices, data structures and activities that are associated with our corporate model."

Last October Texas Instruments announced Composer by IER. According to Johnny Long, director of product technologies and strategies, this latest version of its integrated development suite provides component-based client/server application development tools.

While IS managers today acknowledge that a corporate-wide repository is valuable, they are mostly working with the less expensive, departmental-level repositories that offer the most appropriate toolset for their developers. CA's Sokol said such repositories are easier to implement. Standards are more easily controlled at that level and associated expenses are more easily included in the corporate budget.

One such product is the Intersolv LAN Repository from Intersolv Inc., Rockville, Md., which is at the core of several tools, including the vendor's Excelsior II and APS for Client/Server. Mike Merriman, Cambridge, Mass.-based director product marketing for the Intersolv Development Suite, said tools-driven repositories solve a big problem for customers.

With standalone repositories, Merriman said, there is always the problem of the blank page. A lot of people have trouble figuring out what to do with a repository if there are no tools on top of it. For a quick start, most development managers prefer to implement a repository that is driven by a suite of tools." High-level management may want a repository that can span the organization, he continued, but "the reality is that most large enterprises are simply not organized to use a single model for development."

Another tools-based repository is the Fort6 Open Application Development Environment from Forte Software Inc., Oakland, Calif. Western Digital Corp., an Irvine, Calif.-based producer of disk drives and semiconductors, chose Forte for a pilot project that involved developing a PC LAN-based work order tracking system.

The system tracks the daily workload of the company's repair service, said James Laurie, senior manager of IS at the Fortune 500 company. "This helps us decide whether to use outside consultants and where to deploy them," he said. The system, deployed late last year, runs on HP 9000 servers, Windows and Macintosh clients, and an Oracle database management system.

"Using the repository saves time, eliminates the problem of developers stepping on each other's toes, and provides a way to ease into object-oriented technology," said Laurie. "When we were in the process of selecting our development tools, the repository was not part of our tools selection criteria. However, we are happy to have it and now require that any new code developed be repository-based."

MCA Inc., Universal City, Calif., has also opted for divisional repositories for its application development. These repositories are used for the seven IS-supported divisions of MCA, said Ron Landers, associate director of corporate film entertainment and studio services. He said the applications being developed are mainly executive management systems, automating functions like box office roll-ups, sales and royalties. They run on a variety of platforms, including the RS/6000, AS/400 and mainframe.

"There is no large-scale corporate model at MCA," said Landers. Instead we have a separate data model for each division." The logical and physical data models are the responsibility of individual development groups, which create and maintain their own development repositories. Developers use the Silverrun analysis and design workbench from Computer Systems Advisors (CSA) Inc., Woodcliff Lake, N.J., which provides a repository that stores all the common data elements used in models. It also stores pseudocode, metadata and all shareable objects, such as data flow diagrams.

"Doing large-scale development correctly requires a lot of technical pieces to be in place; for example, a methodology, formal data administration function, and a database administration group to perform the actual physical implementation of the database design," said Landers.

Michael Croxton, vice president of marketing for Softlab Inc., Atlanta, likewise emphasizes the importance of methodologies for successful large-scale development efforts. "The infrastructure required for effective development must link the repository not just to tools, but also to development methods," he said. Softlab's repository, he said, can integrate with a variety of commercial development methodologies, as well as with in-house techniques.

Change Comes Slowly

Though repositories today are predominantly used in smaller development efforts, nothing in IT remains static. Industry observers say that, while companies may not want to invest in huge, enterprisewide repositories, they will increasingly extend their departmental repositories to other areas throughout their organizations.

Suppliers like CSA are positioning themselves to take advantage of this changing dynamic in development organizations. CSA planned to ship Silverrun's new enterprise-level tool in March 1995, said Anthony De Taranto, CSA president. "This tool will be able to support large models, business process reengineering and concurrent development by multiple developers. It will also offer sub-schema support that permits the departments of an enterprise to detach part of the global model. The departments can create and maintain their own rules, apart from the corporate model, thus reflecting their side of the business." De Taranto said the new version of Silverrun will support multiple platforms.

Support for multiple platforms is a key requirement for development tools today. Whether they are expanding or downsizing, corporate IS departments usually have to deal with different hardware, operating systems, database management systems and languages. One of the requirements that CMstat Corp. had when it went looking for a development tool and repository was multiplatform support, said Rick Mosteller, the firm's vice president, of operations. CMstat develops configuration and product data management systems for engineering customers worldwide.

Mosteller said customers use CMstat System to manage departmental **repositories** of engineering files consisting of textual **specifications** and graphical **schematics**. "We use Ca-OpenRoad **Computer Associates' repository**-based application development tool to develop CMstat System's graphical user interface GUI," he said. "CA-Open-Road's real differentiator is its ability to develop applications simultaneously on different hardware platforms using a single central version of source code. This is important because CMstat System supports multiple Unix platforms, along with PCs running MS-Windows 3.1, OS/2 and MS-Windows NT."

Like CSA, Compuware Corp., Farmington Hills, Mich., has positioned Uniface Six, its tools and repository, as effective for enterprise

situations. Metamor Technologies Ltd., a Chicago systems integrator, used Uniface Six as an enterprise-wide tool when they developed the electronic billing system for a large telecommunications firm. Metamor has had other successes using the repository in this manner, said Irv Shapiro, Metamor's president.

There are cultural factors to consider in development efforts that span enterprises, said Shapiro. Unless you can enforce the use of standard-defined logic by developers, you risk losing the value of the tool's standardization and productivity," he said. "But if you utilize the capabilities of the tool's repository, you can generate a reliable, predictable, high-performance application."

In the short term, it is unlikely that repositories will achieve the enterprise-level penetration that many vendors had hoped they would. The chaotic state of IS shops, the lack of standardization, and managerial reluctance will not disappear overnight. Limits in the technology itself - performance, extensibility, security, integrability and flexibility - will likewise slow acceptance.

WHAT SHOULD REPOSITORIES PROVIDE?

Process Management: Provides a systems development life cycle and software configuration management support.

Legacy Transitioning: Reverse-engineers legacy code into the repository and provides for management of this information and reuse in new systems development.

Tool Integration: Enables passage of entity-relationship diagrams, data flow diagrams, etc. from one tool into the repository information model, and then translates it to the other.

Information Cataloging: Serves as a central tank for all information, and provides cross-referencing of modules to determine impact of change.

Data Warehousing: Provides for data cleansing and scrubbing.

SOURCE: META GROUP

Mary Hanna is a freelance writer located in Cary, N.C. She has more than 20 years experience in programming and systems management.

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23/9/12 (Item 12 from file: 275)
DIALOG(R) File 275:Gale Group Computer DB(TM)
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01255908 SUPPLIER NUMBER: 07047979 (THIS IS THE FULL TEXT)
A hypertext system means hyperservice at Ford Motor. (hypertext-based automobile diagnostics and repair workstation)

Pallatto, John

PC Week, v5, n42, p51(2)

Oct 17, 1988

ISSN: 0740-1604 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 943 LINE COUNT: 00075

ABSTRACT: Ford Motor Co's Service and Parts Div is using technology to address its automobile repair problems. The company spent three years and \$20 million to develop the Service Bay Diagnostic System (SBDS), a hypertext-based automobile diagnostics and repair workstation that helps automobile technicians make car repairs correctly the first time. The core of the system is Owl International Inc's Guide hypertext package. Three modules make up SBDS: a database of the information needed to trouble-shoot a problem, test instruments to monitor engine performance and an expert diagnostic system. Technicians enter data about repairs into SBDS and then upload that information to Ford's mainframe computers. SBDS is undergoing beta testing at six Ford dealerships in Michigan and should be in use at 2,000 Ford dealerships by Dec 1989.

TEXT:

A Hypertext System Means Hyperservice at Ford Motor

Ford Motor Co. prides itself on its company motto, "Quality is job 1." But to the many customers visiting the service department for the second or third round of warranty repairs, the words ring hollow.

Acknowledging that a repair problem is a company problem, Ford's Service and Parts Division, in Dearborn, Mich., is currently testing a hypertext-based automobile diagnostics and repair workstation designed to help mechanics repair cars correctly the first time.

"The project came from the grass roots. The people involved in warranties and service in the dealerships said they felt we needed to do something about this issue," said Phil Ewasyshyn, a product engineer in the Service and Parts Division.

Called Service Bay Diagnostic System (SBDS), the system lets a technician select the tools to test car performance and enter data on symptoms and vehicle identification codes to determine what course of investigation to follow. Once the technician shifts SBDS into diagnostics mode, the expert system takes control. It analyzes the meter readouts and the symptoms entered by the technician, isolates the parts that have failed and presents instructions on how to replace the parts, Ewasyshyn explained.

Technicians can also connect the car to a Portable Vehicle Analyzer to record performance data during test drivers.

Currently, SBDS is being tested at six Ford dealerships in Michigan, Ewasyshyn said. If the pilot study proves successful, Ford hopes to have the system in full operation by December 1989, in as many as 2,000 dealerships.

If the system meets Ford's expectations, SBDS will do far more than improve technicians' troubleshooting skills: It will help Ford reduce the cost of repairs required under factory warranties, reduce the chance that the company might have to institute an expensive model-recall program and increase the number of satisfied customers.

Creating the SBDS has been a three-year project that has cost roughly \$20 million for outside development work, Ewasyshyn said.

The development team, working in conjunction with Hewlett-Packard Co., sought a system that would run both graphics and text.

It selected Owl International Inc.'s Guide hypertext package, which runs with Microsoft Corp.'s Windows graphical operating environment, to serve as the core of the system.

Another major requirement was that the development team "take off-the-shelf technology and adapt it to our own needs," Ewasyshyn said.

That still left a lot of development chores for the roughly 50 engineers and programmers who worked on the project within Ford and at a variety of subcontractors.

In addition to the hypertext programming on the personal computer, programming was required in C and COBOL to set up the communications links between the personal computer and database running on the Ford network of IBM mainframes and Digital Equipment Corp. VAX minis.

SBDS consists of three modules. The first module is a **database** that includes all of the information a technician needs to troubleshoot a problem, including on-line **diagrams**, electronic **schematics**, technical **specifications**, **parts** manuals and instruction manuals. All of this information is stored in CD ROM format.

The second module is a computer-generated "tool box" of test instruments that can monitor virtually every aspect of engine performance. Included in the instrument array are volt meters, tachometers, pressure gauges and vacuum meters. All of these readouts appear on the personal computer screen.

The third module is an expert-system diagnostic program developed for Ford by the Carnegie Group Inc., a leading artificial-intelligence firm that is based in Pittsburgh. The purpose of the system is to bring consistency to diagnosis and repair processes, Ewasyshyn said. It should also reduce the amount of guesswork and trial and error that goes into auto repairs.

On-the-Job Training

"Another goal of the system is to inform the technician about what he is doing and why he is doing it. We are trying to educate the technician as much as fix the car," Ewasyshyn said.

Furthermore, the system keeps technicians up-to-date on a huge volume of constantly changing information, he said.

Knowingly the location of a particular component is part of the challenge of correctly diagnosing a problem. It's virtually impossible for service technicians to keep track of where various parts are located.

Different car models may use similar parts, but part location often vary from model to model. Part locations frequently change even within the same model during the course of a year-long production run, Ewasyshyn said. For that reason, SBDS includes an interface that allows technicians to dial into a mainframe database at Ford headquarters and download the latest service bulletins.

The updates are organized so that technicians can either seek out only the information they are interest in at the moment or browse through it all.

Technicians can upload to Ford's mainframes information about all the cars they have tested.

This give Ford the opportunity to study the difference types of defects that its technicians are finding in the field. Statistical analysis of field reports can indicate, for example, whether certain types of parts are frequently defective or if the defects are appearing in particular models or in many other patterns.

This can show Ford's engineers how to correct problems before the car leaves the assembly line. In this sense, SBDS could serve as an early warning system for defects appearing consistently in a particular model or an entire product line.

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23/9/15 (Item 15 from file: 275)
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01204382 SUPPLIER NUMBER: 04698607 (THIS IS THE FULL TEXT)
Hierarchical-level CAE system features snap and simplicity.
Mladejovsky, Michael
Electronic Design, v35, p113(4)
Feb 19, 1987
ISSN: 0013-4872 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 2096 LINE COUNT: 00166

TEXT:

Hierarchical-level CAE system features snap and simplicity

A friendly graphics interface is essential in any CAE system in which engineers design circuits at a hierarchical level. The software also has to keep up consistent graphical, electrical, and physical relationships throughout its data base.

Many CAE tools work toward that goal. They differ mostly in the number of times the data base has to be transformed--recompiled or relinked. Transformations take place as the design progresses from concept, through schematic capture and verification, to physical layout--even, where necessary, to a redesign.

Electronic Design System, a CAE tool for designing printed circuit boards, custom VLSI circuits, and ASICs is built around an innovative **data - base** technology. It lets an engineer enter **schematics** interactively, simulate **circuit** designs, create **parts** libraries, check electrical design rules, and specify critical design **requirements**. Moreover, a user can interactively check connectivity, specify simulation stimuli, and assign physical references.

The design-automation system includes an easy-to-learn work environment that simplifies interaction with a computer. Among its helpful features are icons, multiple windows, pop-up context-specific menus, and a consistent graphics editor.

The icons, which give a graphical representation of how a design is organized and stored in the data base, are grouped into three general types: informational--designs, forms, and documents; organizational--library, partitions, and wastebasket; and one that represents a file.

The user sees some icons directly on the full workstation screen. Other icons show within the screen's windows, giving views into yet other icons (Fig. 1). For example, a file icon labeled "TTLgates" opens into a window with a library icon, labeled "gates," which, in turn, opens into a window holding specific ICs in the 7400 family-- the 7400, 7402, 7404, and so on. Each specific IC represents a physical part in a standard library.

The workstation screen displays up to 15 or 20 overlapping windows at once, with 6 shown in this example. One is the active window, always in the foreground, which has a dark banner. By moving the cursor across specific regions of the active window's border, a designer can scale, pan, and zoom in and out of the image. The other windows present various aspects of the object being designed.

TURNING ELECTRONIC PAGES

Among the pages which can be viewed in windows is a tabular listing of other optional pages that further characterize an IC. For example, the 7400 index page lists several other pages containing data about the chip, three of them for symbol, physical, and timing information.

The symbol page contains the graphic symbol and pin locations for the 7400 NAND gate. On the physical page, the designer maps from the logical pin numbers on the symbol page to the physical pins on a 14-pin package. Besides tabulating the 7400 gate's propagation delays, the timing page names the model to be evaluated during a simulation, as well as defining the 7400 as a leaf, the lowest level in a hierarchical design. For simulation, therefore, it contains no other circuit structures.

Timing pages for other TTL two-input NAND gates, such as the 74L00 and 74H00, appear in the 7400 index. Those pages relate to the 7400 NAND-gate and rely on the same functional model for simulation, but have different timing specifications. For the electrical fan in and fan out for each variant, or scion, of the gate, specifications are shown on a separate

scion page. Grouping related designs significantly cuts down on the size of the parts library, as well as speeding its creation.

A simple, bottom-up hierarchical design with 7400-series components comes out of the 'TTLgates' icon (Fig. 2). A partition icon--one containing other icons--named 'Johnson' opens into a window, showing a hierarchy of two design icons, 'Counter' and 'Dflop.'

The Dflop index window shows that a designer has created symbol, logic, and simulation pages, which open in turn into windows. To demonstrate a simple hierarchical design, the designer connects gates to create a D flip-flop, then uses that design as a component in 'Counter.'

CREATING A DIAGRAM

In the logic page, the designer creates a diagram made up of component symbols, wire segments, connectors, pin and node names, and so on. The designer represents two of the 7400-series NAND gates in the Dflop logic page by a De Morgan equivalent symbol. The system automatically transforms the gate symbol and the pins.

The design-automation system labels components on each page, numbering the Dflop design's gates CMP1 to CMP6. A designer wanting the Dflop to be a component in a hierarchical design creates the symbol page through the system's graphics editor.

In contrast to the NAND gate, the Dflop is not a physical part and therefore has no physical page in the design index. Moreover, since the Dflop's logical behavior and timing result from its connectivity and the characteristics of its components, it needs neither timing page nor simulation model.

Immediately after completing the Dflop design, a designer can simulate it in a window that acts as interface between designer and the simulator. Through that interface the designer can set up and manipulate, textually or graphically, such stimulus events as pulses and rising and falling edges, as well as set up pins or internal nodes to be observed. In the same way, simulation results can be displayed either textually, or graphically as traces, and then captured in a file. When traces show on the virtual oscilloscope display, the system tracks the stimuli and the state of driven nodes.

CHECKING THE COUNTER

For example, a Dflop design and a 7402 NOR gate may create a 3-bit Johnson counter consisting only of a logic and a simulation page (Fig. 3). Simulation confirms that all three bits of the counter clear when the Init input is one, and that the counter starts when the input is zero. Labeled 'cmp2.TP,' the Dflop's internal-node waveform at the test-point shows up on the simulation page.

By simulating the Dflop and counter designs at their respective hierarchical levels, the system allows each to be updated as the task proceeds. Thus, if a wiring change is made in the Dflop logic page, the designer resimulates the Dflop by reopening its simulation page.

Similarly, by displaying the counter logic page, the designer sees the change's effect on the counter. Then, by taking advantage of the menu system, he updates the parts, checks the counter simulation page, and reruns the simulation with no lengthy recompilation.

BIDIRECTIONAL SYSTEM

The simple counter is an example of a bottom-up hierarchical design. However, the system also lets a designer employ a top-down design method--for a digital signal processor, for example, the designer first establishes only symbol pages, labeling them 'register file,' 'ALU,' 'multiplier,' 'barrel shifter,' 'control,' and 'timing unit.'

Using the simulator's modeling language, the designer writes a functional model for each symbol. A timing page references the functional models into each design, with an estimate of expected delays as an option.

A top-level design, labeled 'DSP,' has only a logic page with connected symbols. An inserted simulation page lets the designer test the circuit before all blocks have been designed down to the physical part, or leaf level.

As each major block is broken down into hierarchical levels or physical parts, a logic page replaces the timing page. The page change makes it possible to manage a complex, many-faceted design by replacing several equivalent gates with a functional model made up of only a few lines of code.

The designer can also set up a pc board physically, allocate one out

of the four available gates in a 14-pin DIP, assign physical pins, and demonstrate them in the logic diagram (Fig. 4). But since the three appearances of Dflop in the counter are not physical parts, no pins or reference designators appear for them.

In the example, after physical references are assigned, two windows open into the Dflop. One, the generic logic page, is made by opening the Dflop icon; the other, the Dflop's logic page, is opened by looking into the Dflop's second representation (CMP2) in the counter logic page. The logical pin names D, C, and Q in the first window are automatically replaced in the second window with the specific names of the nodes: X, clock, and Y, to which CMP2 is connected. Also visible are pin numbers and reference designators of the parts allocated to the hierarchical level.

If the designer wants to alter the reference designators or pins after the physical layout is complete, he can edit the reference designator field on screen or back-annotate it through a program written in one of the system's data-base access languages. These languages can also extract netlists, generate part lists, or create interfaces to physical layout systems.

The Mainsail language contributes the CAE system's dynamic arrays and records, memory allocation and deallocation, and linked modules. It is a commercially available language with an integrated compiler, editor, and source-level debugger. In addition, it also has well-defined data typing.

The design-automation system is only one of the many applications of the system's underlying artificial-intelligence data-base technology. Graphics interface, menu system, windowing, and data base here act as an environment which is equally suitable for other design-automation tasks. For example, other fields, such as the physical attributes of objects, can be added to the data base without rendering existing designs obsolete.

MODELING WITH OBJECTS

The design-automation system and its data base correspond closely to the designer's point of view. Besides the design process, electrical relationships and graphics are modeled with Objects, a modified object-oriented programming paradigm.

A collection of data and a group of methods that operate on that data, Objects and its accompanying icons represent parts of designs read or written to memory as a unit. A hierarchy of data structures, called Dataobjects, represent such displayable entities as pages, symbols, components, and wires, as well as graphics primitives such as text, lines, and arcs.

Objects also encompasses non-displayable entities that go beyond the design hierarchy, such as relationships among pins, wires, nodes, nets, and simulation event-queues. Objects and Dataobjects both have what their designers call Methods, built-in procedures that manipulate the records in their own data structures--for example, checking the loading of ICs.

Pop-up menus let the user interact with Objects or Dataobjects. Menu selections pass messages to Methods with information about what Objects should do. Containing the procedure for any given activity, Methods either operates on accompanying data records, or passes messages down the Object hierarchy.

Assume that the designer had selected the partition icon labelled Johnson, and had picked "perform/copy" from the menu. Then messages which cause replication would propagate through all the devices that make up the designs, down to the Dataobjects that draw lines and make symbols.

Photo: 1. In the Electron Design System, a CAE tool that displays design information in windows, six overlapping windows correspond to a TTLgates icon. Three pages of the 7400 design --symbol, physical, and timing-- open into separate windows; the active window has a dark banner, and always appears in the foreground.

Photo: 2. A partition icon, Johnson, contains two designs: a counter, and a D-type flip-flop called Dflop. The flip-flop, in turn has three pages: Symbol, Logic, and Simulation, which detail its structure and operation.

Photo: 3. A counter design has three D-flip-flops. Simulation of the circuit shows the initialization and counting sequence. Node TP, inside Dflop CMP2, is traced during the simulation.

Photo: 4. After the system assigns physical references to the counter design, the system shows pin numbers and reference designators of the physical parts. The bottom left window shows a generic D-type flop logic,

while at the bottom right is a view produced by pushing into the counter's node CMP2.

23/3,K/1 (Item 1 from file: 275)
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02138733 SUPPLIER NUMBER: 20165529 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Sybase design tool offers something for everyone. (Sybase's PowerDesigner 6.0 DBMS) (Software Review) (Evaluation)
Fuller, Arthur
Databased Web Advisor, v16, n1, p62(6)
Jan, 1998
DOCUMENT TYPE: Evaluation ISSN: 1090-6436 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 2869 LINE COUNT: 00228

... design.
How PowerDesigner works
Figure 1 illustrates the overall operation of PowerDesigner 6.0, up to the point of generating a web site from a **database specification** Physical Data Model (PDM). The **diagram** doesn't include the Warehouse **component** or MetaWorks. Note that you're not required to use all the components. In the absence of a Process Analyst Model (PAM) and a Conceptual...

23/3,K/2 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01777611 SUPPLIER NUMBER: 16864532 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Tool integration issues weaken repository efforts to stand alone. (integrating application development tools into repositories)
Hanna, Mary
Software Magazine, v15, n4, p39(6)
April, 1995
ISSN: 0897-8085 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2828 LINE COUNT: 00244

... vice president, of operations. CMstat develops configuration and product data management systems for engineering customers worldwide.
Mosteller said customers use CMstat System to manage departmental **repositories** of engineering files consisting of textual **specifications** and graphical **schematics**. "We use Ca-OpenRoad **Computer Associates' repository**-based application development tool to develop CMstat System's graphical user interface GUI," he said. "CA-Open-Road's real differentiator is its ability to...

23/3,K/3 (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01632477 SUPPLIER NUMBER: 14516156 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Databooks go electronic.
Maliniak, Lisa
Electronic Design, v41, n19, p18(1)
Sept 16, 1993
ISSN: 0013-4872 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 607 LINE COUNT: 00051

... of manufacturer-datasheet images on CD-ROMs. Users can view more than 600,000 datasheet pages on a computer screen, allowing immediate access to timing **diagrams** and other **device** data. The **database** can be searched using any number of parameters recorded for each component, including manufacturer, semiconductor technology, and electrical **specifications**. Aspect is also developing CIS databases for resistors, capacitors, and other components. Updates are available every 60 days.
The engineering-information service created by Info...

23/3,K/4 (Item 4 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01556509 SUPPLIER NUMBER: 14403539 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Something for every engineer. (technical tools) (Buyers Guide)
Computer-Aided Engineering, v11, n12, p60(6)
Dec, 1992
DOCUMENT TYPE: Buyers Guide ISSN: 0733-3536 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 5037 LINE COUNT: 00459

... 306, Cambridge, MA 02138; 514/7353219; Fax: 514/735-6440. See Ad
Index

DEED 1.3 and DEED 1.3 C Language Interface
Object-oriented **database** created for engineering design and product
data management. Integrates bills of materials, complete **specifications**
for **parts**, and **drawing** management. DOS, Wksts. Bionic Knight Software
Inc., 919/847-1531; Fax: 919/847-3182.
Engineering Data Management (EDM)
Provides data management infrastructure to manage and...

23/3,K/5 (Item 5 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01467527 SUPPLIER NUMBER: 11905137 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Ford's strategic multinational network. (Ford of Europe Inc.)
Dixon, William
Telecommunications, v25, n12, p39(3)
Dec, 1991
ISSN: 0278-4831 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1972 LINE COUNT: 00163

... of these calls; however, about 11 percent of them had poor line
quality.

To work over a wide area, the engineers needed to exchange
engineering **drawings**, revisions, and **parts** of design **data bases**
within minutes rather than hours. On the other hand, the existing networks
struggled to meet today's **requirements**. Ford of Europe knew these
networks could not handle future demands.

Coordinating of international resources requires more communications
traffic between sites. In 1987, Ford of...

23/3,K/6 (Item 6 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01450821 SUPPLIER NUMBER: 11247725 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Build mixed-signal ASICs without analog cells. (application-specific
integrated circuit) (Gould AMI's Mixed-Signal Design Solution) (Product
Innovation)**
Goodenough, Frank
Electronic Design, v39, n17, p163(3)
Sept 12, 1991
ISSN: 0013-4872 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1366 LINE COUNT: 00109

... a rough estimate of production-IC cost.

For existing analog cells, the AMB puts out a behavior level model
(BLM) with the user's cell **specifications** inserted, plus a **schematic**
-capture symbol that has properties (**circuit** characteristics) attached.
With the model and its **specifications**, the AMB creates the analog/digital
data base for circuit simulation later. The AMB also takes the data for
the customer-defined functions and creates data sheets and specifications

... for the Parameterized...

23/3,K/7 (Item 7 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01423254 SUPPLIER NUMBER: 10540340 (USE FORMAT 7 OR 9 FOR FULL TEXT)
New for PC: File Express 5.0. (Expressware Corp.'s data base management
system) (product announcement)
Mallory, Jim
Newsbytes, NEW03250019
March 25, 1991
DOCUMENT TYPE: product announcement LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 281 LINE COUNT: 00021

... used for generating mail-merged documents (the user types a basic letter, indicating where to insert the name, address and other information contained in the **database**, and the computer prints the customized letters without operator intervention). Color, word wrap and line/box **drawing** have been added.

Hardware requirements are minimal, needing only 512K (kilobytes) of memory, and either a hard drive or two 720K floppy drives.

File Express 5.0 can be purchased...

23/3,K/8 (Item 8 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01358593 SUPPLIER NUMBER: 08474996 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Autocad goes island hopping. (Dutch engineering firm Ballast Nedam
Engineering uses Autocad to design bridge in Denmark)
Vincent, Jo
CAD-CAM International, v9, n4, p26(2)
April, 1990
ISSN: 0261-6920 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1140 LINE COUNT: 00089

...ABSTRACT: and A3 Calcomp digitizer. 2D CAD drafting is used for production drawings, 3D capabilities are used to model prestressed cables, and an 'Autostruct' package links **drawing** layers to a **components specification** and geological formation **database**.

23/3,K/9 (Item 9 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01350261 SUPPLIER NUMBER: 08167986 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Future of 4GLs lies in CASE integration. (fourth-generation languages
integrated with computer-aided software engineering tools)
Weitz, Lori
Software Magazine, v10, n2, p33(8)
Feb, 1990
ISSN: 0897-8085 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 3656 LINE COUNT: 00306

... Case version 2 to its Natural Engineering Series set of integrated 4GL Case products. This product merges front-end Case tools with an object-oriented **repository** and a fourth-generation application delivery environment, using Natural as the executable **specification** language.

The product includes: object and set-level **repository** maintenance, **workstation**-based **diagram** generation, a schema generator, a program composer and extensive documentation generation facilities.

Software AG also has a lower Case tool called Natural Construct, a forms...

23/3,K/10 (Item 10 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01267689 SUPPLIER NUMBER: 08101378
Data base for design standards unveiled. (CAD Information Systems Inc.'s
electronic parts database) (product announcement)
Duffy, Carolyn
Federal Computer Week, v3, n50, p30(2)
Dec 11, 1989
DOCUMENT TYPE: product announcement ISSN: 0893-052X LANGUAGE:
ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: capture them for inclusion in actual renderings in
computer-aided design drawings. The CD-ROM product is claimed by the
company to be the only **database** available that combines ASCII text,
raster images and vector data; the **database** is also available in magnetic
form. Military and federal **specifications**, industry standards and
manufacturer data for the parts are included in the **database**; geometrical
drawings of the **parts** to scale are available when the **database** is
joined with a CAD software package. A single-user subscription for the
first database will cost \$7,000 a year; the second database on...

23/3,K/11 (Item 11 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01256155 SUPPLIER NUMBER: 06596012 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Building up to IEW-WS. (Software Review) (application development)
(evaluation)
Topper, Andrew
PC Tech Journal, v6, n9, p110(11)
Sept, 1988
DOCUMENT TYPE: evaluation ISSN: 0738-0194 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 5892 LINE COUNT: 00495

... KnowledgeWare leans toward corporate systems in its extensive
facilities for designing IMS databases; however, IEW/WS also provides
diagramming tools for designing relational and file **databases**.

Database diagrams depict how file structures are implemented and
which relationships exist among the different entities in the **database**.
The design **workstation** provides IMS **database** -description **diagrams** and
textual descriptions as well as flat-file, program- **specification** -block,
and relational diagrams. Each diagram consists of logical records drawn as
rectangles, with relationships indicated by arrowed lines connecting them.

For developers anticipating COBOL...

23/3,K/12 (Item 12 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01255908 SUPPLIER NUMBER: 07047979 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A **hypertext** system means hyperservice at Ford Motor. (hypertext-based
automobile diagnostics and repair workstation)
Pallatto, John
PC Week, v5, n42, p51(2)
Oct 17, 1988
ISSN: 0740-1604 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 943 LINE COUNT: 00075

... database running on the Ford network of IBM mainframes and Digital
Equipment Corp. VAX minis.

SBDS consists of three modules. The first module is a **database** that

includes all of the information a technician needs to troubleshoot a problem, including on-line **diagrams**, electronic **schematics**, technical **specifications**, **parts** manuals and instruction manuals. All of this information is stored in cD ROM format.

The second module is a computer-generated "tool box" of test...

23/3,K/13 (Item 13 from file: 275)
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01244896 SUPPLIER NUMBER: 06294416 (USE FORMAT 7 OR 9 FOR FULL TEXT)
CAD for cars. (Computer Aided Design)
Davis, Lynn
Computer Graphics World, v11, n2, p83(2)
Feb, 1988
ISSN: 0271-4159 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1221 LINE COUNT: 00097

... manufacture--to develop a plan of the process and the machinery that will achieve that process.

Once the customer approves the plan, Lamb enters detailed **specifications** into the mainframe Cadam **database** and downloads it to the Micro Cadam environment for distribution. Subcontractors use Micro Cadam to generate **drawings** of the **parts** to be manufactured, and the finished design is returned to Lamb for approval. In the case of subcontracted design work, the drawings are the final...

23/3,K/14 (Item 14 from file: 275)
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01206646 SUPPLIER NUMBER: 06141910 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Personnel applications follow SAA blueprint. (Eric II, Eric Jr.)
PC Week, v4, n47, p26(1)
Nov 24, 1987
ISSN: 0740-1604 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 212 LINE COUNT: 00017

... features into Eric II and Eric Jr., two new applications that automate corporate and small-business personnel functions.

The applications were written to the published **specifications** of SAA, IBM's **blueprint** for connecting its different **hardware** architectures.

Both of Eric Systems' products use relational **database** technology to create and store employee records, according to John Wells, Eric Systems' president. Software modules in both Eric II and Eric Jr. generate a...

23/3,K/15 (Item 15 from file: 275)
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01204382 SUPPLIER NUMBER: 04698607 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Hierarchical-level CAE system features snap and simplicity.
Mladejovsky, Michael
Electronic Design, v35, p113(4)
Feb 19, 1987
ISSN: 0013-4872 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 2096 LINE COUNT: 00166

... necessary, to a redesign.

Electronic Design System, a CAE tool for designing printed circuit boards, custom VLSI circuits, and ASICs is built around an innovative **data** - **base** technology. It lets an engineer enter **schematics** interactively, simulate **circuit** designs, create **parts** libraries, check electrical

design rules, and specify critical design **requirements** . Moreover, a user can interactively check connectivity, specify simulation stimuli, and assign physical references.

The design-automation system includes an easy-to-learn work...

23/3,K/16 (Item 16 from file: 275)
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01194739 SUPPLIER NUMBER: 06014314

CASE tools are key to market strategy. (Knowledgeware Inc.'s new products complete front-end CASE design and analysis product line) (product announcement)

Feuche, Mike

MIS Week, v8, n41, p34(1)

Oct 12, 1987

DOCUMENT TYPE: product announcement ISSN: 0199-8838 LANGUAGE:
ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: of CASE applications. The products will increase the firm's front-end CASE market share with claims of better performance over market leader Excelerator. Planning **Workstation** includes decomposition and entity-relationship **diagrams** and tables and matrices for capturing and analyzing planning data regarding system **requirements** . Design **Workstation** includes **diagrams** for capturing and manipulating information on screen layouts, edit rules, program structures, procedural logic, and **database** and file structures to create **specifications** for actual code generation. The new products will cost \$7,500 each and run on the IBM PC AT and compatibles and PS-2s. Knowledgeware...

23/3,K/17 (Item 17 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01184564 SUPPLIER NUMBER: 06085100

Make cad manage the database.

Macdonald, Doug

CAD-CAM International, v6, n3, p55(3)

March, 1987

ISSN: 0261-6920 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

ABSTRACT: Computer integrated manufacturing is the challenge of the '80's. It will come through the management of a company's **databases** and building applications around them. All the traditional information storage facilities, such as **drawings** , card files, microfilm, **parts** lists, and so forth, must be integrated into a computer **database** . A fundamental **requirement** is parts management. There are two ways to do parts management: the intelligent scheme and the non-intelligent. In the former, the number itself has...

23/3,K/18 (Item 18 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01090341 SUPPLIER NUMBER: 00549460

Parallel Processing Meets Computationally Intensive Requirements.

Appalaraju, R.

Digital Design, v14, n4, p122-126

April, 1984

ISSN: 0147-9245 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: of time. The processors run in parallel, transparent to each other. Several types of multiprocessing systems are analyzed. With advances in artificial intelligence, the computational **requirements** are staggering. **Knowledge - based machines** are described. A **diagram** shows

a model of a SIMD-MIMD machine.

23/3,K/19 (Item 19 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01019980 SUPPLIER NUMBER: 00526089
Public Database Services in Hungary.
Sebestyen, I.
Online Review, v7, n3, p239-269
June, 1983
ISSN: 0309-314X LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: be important to small countries like Hungary. Tables show present and planned data base services in Hungary. Another table shows customer growth rates for some **data bases** in Hungary. Usage of computers in Hungary is given according to **computer** size. A block **diagram** shows a Hungarian data center **hardware** configuration. A detailed table gives **specifications** on the Ryad II computer used in Hungary.

23/3,K/20 (Item 1 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2004 The Gale Group. All rts. reserv.

02154632 Supplier Number: 55540032 (USE FORMAT 7 FOR FULLTEXT)
Aonix Introduces New Process-Based Modeling Environment With New Code Generation Technology for Windows NT.
PR Newswire, p5420
August 24, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 575

... modeling and management for Windows NT."
StP 7.2 for Windows NT Features:
* UML 1.1 support, including use-case, class, sequence, collaboration,
state, activity, **component** , and deployment **diagrams**
* Structured Analysis and Design
* **Requirements** -based test-case generation
* Report generation in HTML
* Multi-user **repository** based on Microsoft Jet or Sybase
* Integrations with
- MicroSoft's Visual C++
- MicroSoft's Visual J++
- QSS/DOORS requirements management tool
- Aonix's ObjectAda
Pricing...

23/3,K/21 (Item 2 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2004 The Gale Group. All rts. reserv.

01560380 Supplier Number: 47908429 (USE FORMAT 7 FOR FULLTEXT)
Boeing Upgrades On-Line Maintenance Information Service
PR Newswire, p0813SFW025
August 13, 1997
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 358

Boeing On-Line Data (BOLD) provides direct access to Boeing **databases** containing digitized technical **drawings** , service bulletins, Boeing **Component** Maintenance Manuals, and **specifications** for parts and materials. **Databases** are updated daily, freeing users from managing huge

quantities of documents, including thousands of file cards containing microfilmed drawings.

The new, upgraded version of this...

23/3,K/22 (Item 3 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2004 The Gale Group. All rts. reserv.

01306336 Supplier Number: 45820056 (USE FORMAT 7 FOR FULLTEXT)

Accugraph to release General Telephony Shell for equipment provisioning.

Business Wire, p9290057

Sept 29, 1995

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 289

... in a graphical point and click environment.

Commercially available in November, GTS functions as a shell environment created to manipulate data from either a relational **database** or Accugraph's MountainTop **computer** -aided design (CAD) **drawings**. Work order **specifications** can be generated from a Bill-of-Materials (BOM) defined by piece part ordering or from customized question and answer (Q&A) sets. The Q...

23/3,K/23 (Item 4 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2004 The Gale Group. All rts. reserv.

01179849 Supplier Number: 42535743 (USE FORMAT 7 FOR FULLTEXT)

Powerful New AutoCAD (R) Software for Process Engineering

News Release, p1

Nov 21, 1991

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 507

... drawing databases can be put

on a single machine and collectively edited within PRO-FLOW's new Project Manager. By globally editing attributes with the **database**, errors are reduced. For example, if a line changes **specification**, the

spec can be changed in the project **database** line list. This will then be propagated throughout the entire project, to each **component** on each **drawing**.

The Project Manager also enables the drafter to generate standard and/or customized reports. "An extremely user-friendly environment has been developed for creating reports...

23/3,K/24 (Item 5 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2004 The Gale Group. All rts. reserv.

01131674 Supplier Number: 41105601 (USE FORMAT 7 FOR FULLTEXT)

VERSACAD and THE VAN DER ROEST GROUP, INC. ANNOUNCE CAD/BASE FOR VERSACAD

News Release, p1

Jan 8, 1990

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 454

... are also available.

CAD/Base operates in either the DOS or OS/2 environments and supports all major networks and database servers. Within network and **database**

server environments, opportunities exist for maintaining centralized support **databases** as well as controlling status, revision and access of VersaCAD **drawings** .

Hardware requirements

include 640K RAM, and the availability of 7 MB of hard disk space. Expanded memory support is available for systems with RAM space above 640K...

23/3,K/25 (Item 6 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2004 The Gale Group. All rts. reserv.

01069250 Supplier Number: 40338567 (USE FORMAT 7 FOR FULLTEXT)
LOTUS INTRODUCES BLUEPRINT
News Release, pl
March 30, 1988
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1018

... ROM databases - Lotus's Information Services Division is creating Blueprint drivers to offer spreadsheet users access to a variety of CD-ROM business and financial **databases** .

The **Blueprint** Toolkit for PC developers, which will include the **Blueprint specification** and related code libraries, will be available in the fourth quarter for a one-time fee of \$250.

All prices and terms are for North...

23/3,K/26 (Item 7 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2004 The Gale Group. All rts. reserv.

01061607 Supplier Number: 40266266 (USE FORMAT 7 FOR FULLTEXT)
PRONet, The Open Repair Network, was introduced today at a press conference held by San Antonio-based PROTECH at the ATE & Instrumentation Conference West.
News Release, pl
Jan 13, 1988
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 216

... systems." Elkins went on to say, "Through the ability to interconnect multiple work stations with a master station, the entire network can utilize the same **data base** ."

PRONet Network can be configured according to the functional **requirements** of each test area with up to five stations offering analog/digital, **Computer Aided Schematic** Engineering "CASE" and other capabilities.

Elkins explains, "Users can look toward PROTECH as a single vendor resource to provide the system and software along with..."

23/3,K/27 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

04518597 Supplier Number: 58307553 (USE FORMAT 7 FOR FULLTEXT)
The 1990's...; Transmission & Distribution Encompasses the World.

Transmission & Distribution World, pNA
Nov, 1999
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1730

... L contracted with Interactive Information Systems, Cary, North Carolina, U.S., to place this manual on the utility's intranet.

The online manual contained comprehensive **drawings**, **assemblies** (compatible **units**), photographs and vendor **specifications**. Hotlinks in each drawing enable users to access additional information from a centralized corporate Oracle **database** with the click of a mouse. The system allows field and general office personnel to search by drawing numbers, keywords, assembly numbers or part of...

23/3,K/28 (Item 2 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01451532 Supplier Number: 41956502 (USE FORMAT 7 FOR FULLTEXT)
NEW FOR PC: File Express 5.0 03/25/91
Newsbytes, pN/A
March 25, 1991
Language: English Record Type: Fulltext
Document Type: Newswire; General Trade
Word Count: 263

... used for generating mail-merged documents (the user types a basic letter, indicating where to insert the name, address and other information contained in the **database**, and the computer prints the customized letters without operator intervention). Color, word wrap and line/box **drawing** have been added.

Hardware requirements are minimal, needing only 512K (kilobytes) of memory, and either a hard drive or two 720K floppy drives.
File Express 5.0 can be purchased...

23/3,K/29 (Item 3 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01128929 Supplier Number: 40878632 (USE FORMAT 7 FOR FULLTEXT)
General Dynamics Land Systems, Sterling Heights, Mich.
Advanced Military Computing, v5, n16, pN/A
July 31, 1989
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 47

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
General Dynamics Land Systems, Sterling Heights, Mich., won a \$9.7 million firm fixed price **contract** for the transfer of the remaining M1A1 **drawings** into a **computer** aided design (CAD) **data base**. U.S. Army Tank Automotive Command, Warren, Mich. (DAAE07-89-C-R081).

23/3,K/30 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

07051801 Supplier Number: 58352183 (USE FORMAT 7 FOR FULLTEXT)
Building Data Repositories for Business Intelligence.(companies using data repositories to streamline manufacturing processes and information flow) (Product Information)
Ruber, Peter
Software Magazine, v18, n13, p51

Oct, 1998

Language: English Record Type: Fulltext Abstract

Document Type: Magazine/Journal; General Trade

Word Count: 2771

... of your corporate knowledge -- up to 98% according to published estimates -- is simply rotting away on those electronic file cabinets -- things like CAD and engineering **drawings**, raster images, product or **component specifications**, **contracts**, business plans, government and regulatory reporting **requirements**, reporting information, customer **databases**, bid forms, product and assembly manuals, financial forecasts, microfilmed images, and audio records. The list is endless.

Somewhere in your enterprise you have people who...

23/3,K/31 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

04758776 Supplier Number: 47002849 (USE FORMAT 7 FOR FULLTEXT)

Software AG starts client/server storm

UNIX News, p33

Jan, 1997

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 139

... match business requirements without rewriting lines of code. Natural LightStorm is based on Natural New Dimension and Engineering Workbench which are integrated with a LightStorm **repository**. NEW is a PC-based **diagram** tool that assists programmers with business modelling and **requirements** analysis. It takes advantage of industry standards for both process and data modelling. Combined with other Natural components, NEW provides integrated support across the development...

23/3,K/32 (Item 3 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

03290921 Supplier Number: 44539716 (USE FORMAT 7 FOR FULLTEXT)

Give them what they asked for

The Engineer, p23

March 24, 1994

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Academic

Word Count: 796

... Consulting, and Siemens. Car companies are also looking to see if RTM can help them manage new car development better.

RTM is a text-based **database** in which text from **specification** documents is captured, tagged and sorted. It can pull in **drawings** and **diagrams** from other **computer** systems where necessary.

Its job is to make sure that customers get what they ask for. It does this by analysing the customer's specification...

23/3,K/33 (Item 4 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

02018683 Supplier Number: 42593805 (USE FORMAT 7 FOR FULLTEXT)

AGREEMENTS

Crain's Detroit Business, p16

Dec 15, 1991

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 117

... intelligent interface for data transfer between Bravo3 and the Valid environment. The interface will be compatible with electronic-data-interchange format and initial graphics-exchange **specification** and allow transfer of **schematic** data and printed **circuit** -board (PCB) **databases** between Bravo3 and Valid's Allegro PCB design environment.

23/3,K/34 (Item 5 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

02001871 Supplier Number: 42568473 (USE FORMAT 7 FOR FULLTEXT)
WILL JOINTLY DEVELOP, SELL ELECTROMECHANICAL CAD SYSTEM: Schlumberger,
Valid team up
Electronic Engineering Times, p27
Dec 2, 1991
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 686

... From Allegro to Bravo
According to the companies, the resulting interface will be compatible with EDIF (Electronic Data Interchange Format) and IGES (Initial Graphics Exchange **Specification**) and will allow the transfer of both **schematic** data and **pc** -board **databases** between Bravo3 and Valid's Allegro pc-board-design environment.
The first interface resulting from the joint effort will be delivered by the end of...

23/3,K/35 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.

01579550
'Sim/Config' program fits IBM environment.
MIS WEEK March 9, 1987 p. 44

Simware's new Sim/Config software offers a built-in hardware device **specification** **database**. In the **database**, there is information about the physical attributes and connectivity rules to 500 of IBM's plug-compatible **hardware** devices. The new software produces **schematics** representing IBM PC, /AT, /XT, and compatible computers, DASD, terminals, modems, printers, and others. The database contains a listing-per-device of connectivity rules, operational parameters, footprint, and...

23/3,K/36 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

08671862 SUPPLIER NUMBER: 18257673 (USE FORMAT 7 OR 9 FOR FULL TEXT)
PC software buyer's guide. (Special Series 2nd Installment: Maintenance Management) (Buyers Guide)
Ogando, Joseph
Plastics Technology, v42, n3, p38(4)
March, 1996
DOCUMENT TYPE: Buyers Guide ISSN: 0032-1257 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 2197 LINE COUNT: 00189

... Phone: 216-726-1166 Fax: 216-726-9437
The Maintenance Professional for Injection Molders and The Maintenance Professional for Extrusion help users create a maintenance **database** for primary and auxiliary machinery that includes complete lists of all

components (categorized as electrical, hydraulic, or mechanical) with technical **specifications** and **diagrams**. Spare- **parts** inventories, reorder quantities, and qualified vendors are also listed. Spirex supplies a list of standard maintenance checks, which users can change or supplement. These packages...

23/3,K/37 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

07948339 SUPPLIER NUMBER: 17114294 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Automate maintenance of auxiliaries.
Ogando, Joseph
Plastics Technology, v41, n6, p17(1)
June, 1995
ISSN: 0032-1257 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 574 LINE COUNT: 00052

... Windows-based PC program by clicking on "speed buttons" at the top of the screen. These icons then trigger a number of software features:

- * Maintenance **database** - Parts orders, inventory levels, component **specifications**, and maintenance schedules reside here. Besides spreadsheet-like tables, the **database** also supports graphics capabilities such as **drawings** or photos of machinery **components**.

- * Set-up - The AEM comes with a list of predefined maintenance categories, including ones for mold and plant maintenance. But users can customize the module...

23/3,K/38 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

07796105 SUPPLIER NUMBER: 16749352 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Trafalgar House plc selects Documentum, Inc. as engineering document management standard; Engineering division of Trafalgar House plc to use Documentum's EDMS to accelerate business processes and manage intellectual capital.
Business Wire, p04041034
April 4, 1995
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 632 LINE COUNT: 00056

... business-critical, collaborative documents and processes. The Documentum Server manages many data types and workflows involved in the life-cycle of large engineering projects including **computer** aided design (CAD) **drawings**, complex **specifications** and standard generalized markup language (SGML), enabling users to access a **repository** or "enterprise vault" of unstructured information.

At the core of the Documentum EDMS are Docobjects -- reusable, easily accessible document components of any data type, at...

23/3,K/39 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

07746005 SUPPLIER NUMBER: 16644421 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Micro House International and Bendata Inc. develop strategic partnership.
Business Wire, p03101331
March 10, 1995
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 478 LINE COUNT: 00040

... compatible reference tool designed for PC service technicians, Help Desk and technical support personnel, LAN administrators, and network engineers who need quick access to complete **specifications**,

configurations, jumper and switch settings, and **diagrams** for thousands of **hardware** products.

First Level Support is a powerful tool for building **knowledge bases** and preserving proven solutions at the Help Desk and end-user's desktop. Customers can also custom build, or add to knowledge bases and First...

23/3,K/40 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

07225005 SUPPLIER NUMBER: 14985680 (USE FORMAT 7 OR 9 FOR FULL TEXT)
1994 tool & equipment buyer's guide. (Buyers Guide)
Motor Age, v113, n3, p117(10)
March, 1994
DOCUMENT TYPE: Buyers Guide ISSN: 0193-7022 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 4327 LINE COUNT: 00348

... 000 unique pages of automotive service and repair information on nine, quarterly-updated, CD-ROM discs. ALLDATAr contains manufacturer's diagnostic and repair procedures, wiring **diagrams**, **specifications**, trouble code diagnostic charts, **component** test specs and recall information. A **database** of service information is available on CD. Snap-on Tools, 2801 80th St., Kenosha, WI 53141 (414) 656-5701.
Snap-on's SIMU-TECH+(TM...

23/3,K/41 (Item 6 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

06488565 SUPPLIER NUMBER: 14039782 (USE FORMAT 7 OR 9 FOR FULL TEXT)
1992 Plant Engineering Product of the Year.
Plant Engineering, v47, n6, p54(13)
April 8, 1993
ISSN: 0032-082X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2802 LINE COUNT: 00233

... full 3-D modeling program for designing piping systems. The program also has orthographic and isometric drawing capabilities. The software features a piping symbol library, **database** for maintaining correct **parts** and **specifications** during the **drawing** process, automatic scheduling, and BOM capabilities.

INSTRUMENTS -- Devar, Inc. Smart Chart paperless data recorder provides continuous monitoring on 8 isolated input channels for up to...

23/3,K/42 (Item 7 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

05177257 SUPPLIER NUMBER: 10822427 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Autodesk Inc. (CAD/CAM Industry Report) (company profile)
Machine Design, v63, n10, p60(1)
May 23, 1991
DOCUMENT TYPE: company profile ISSN: 0024-9114 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 511 LINE COUNT: 00041

... AutoCAD.

According to Kopinski, AutoCAD developers are building more intelligence into the software. For example, future versions will allow linking entities and objects, such as **specifications** or **parts** in a **drawing** file, to other entities and possibly even outside files such as relational **database** files.

The success of AutoCAD is also due to its open and flexible

architecture that runs on nine different operating systems. That means engineers working...

23/3,K/43 (Item 8 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

04867699 SUPPLIER NUMBER: 09075894 (USE FORMAT 7 OR 9 FOR FULL TEXT)
IG denounces artery/tunnel bidding rules; calls for reform. (Massachusetts
Inspector General, Central Artery/Third Harbor Tunnel project)
Hower, Wendy
Boston Business Journal, v10, n34, p3(1)
Oct 15, 1990
ISSN: 0746-4975 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 864 LINE COUNT: 00071

... drawings of the artery/tunnel project, the Corrigan LoVerde Group in Boston won hands down.

But there was no bidding process for the \$15,000 contract to develop the complicated software that dumped 1,000 computer drawings from an old database into a more sophisticated one.

The Corrigan LoVerde contract rests comfortably within the law, according to Jeanette Harrison, media relations director with Bethneel/Parsons, the firm hired by the state Department of Public Works...

23/3,K/44 (Item 9 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

04783773 SUPPLIER NUMBER: 08703772 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Contract awards.
Government Computer News, v9, n15, p87(1)
July 23, 1990
ISSN: 0738-4300 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 101 LINE COUNT: 00008

General Dynamics Land Systems of Sterling Heights, Mich., has been awarded a \$9.7 million fixed-price contract for the transfer of the remaining M1A1 drawings into a computer-aided design database. Work will be performed in Mount Clemens and Sterling Heights, Mich., and is expected to be completed by December 1990. The sole-source contract was...

23/3,K/45 (Item 10 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

04164355 SUPPLIER NUMBER: 08808581 (USE FORMAT 7 OR 9 FOR FULL TEXT)
NCGA demos: standards help to end compatibility 'islands of isolation.'
(Special report on compatibility and connectivity in graphics hardware;
National Computer Graphics Association)
Strothman, Jim
Computer Pictures, v7, n4, p46(2)
August-Sept, 1989
ISSN: 0883-5683 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1105 LINE COUNT: 00089

... s Hierarchical Interactive Graphics Standard (PHIGS) and Graphical Kernel System (GKS), which provide a uniform programmer interface for graphics input and output; Initial Graphics Exchange Specification (IGES), used to electronically pass engineering drawings among different data bases; and Computer Graphics Metafile (CGM), which allows pictures and other graphics to be exchanged among different types of hardware and applications. Also demonstrated were two standards specified ...

23/3,K/46 (Item 11 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

04076077 SUPPLIER NUMBER: 07837017 (USE FORMAT 7 OR 9 FOR FULL TEXT)
High performance computer wars rage.
Advanced Military Computing, v5, n16, p1(4)
July 31, 1989
ISSN: 0884-9471 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1606 LINE COUNT: 00137

... installation. The Naval Avionics Center, Indianapolis.
(NO0163-89-C-0124).
General Dynamics Land Systems,
Sterling Heights, Mich., won a \$9.7 million firm fixed price **contract**
for the transfer of the remaining M1A1 **drawings** into a **computer** aided
design (CAD) **database**. U.S. Army Tank Automotive Command, Warren, Mich.
(DAAE07-89-C-RO81).
Phase IV Systems, Inc., Huntsville, Ala. won a \$100,000 increment as
pan...

23/3,K/47 (Item 12 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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02972814 SUPPLIER NUMBER: 04436332 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Computers think for business; after years in the laboratory, expert systems
are becoming key decision-making tools for companies across the
industrial spectrum. (includes related articles on expert systems in
financial)
Guterl, Fred V.; Nathans, Leah
Dun's Business Month, v128, p30(7)
Oct, 1986
ISSN: 0279-3040 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 2388 LINE COUNT: 00192

... for each different product, engineers simply sketch the product
into the computer using a special electronic tablet. The expert system then
draws on a vast **repository** of information about the **parts** to produce
engineering **drawings** and **specifications**. The system cuts the design
time of certain parts in half, according to Andy Szabo, Westinghouse
director of R&D. "Using this system is like...

23/3,K/48 (Item 13 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

02177231 SUPPLIER NUMBER: 03562020 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Philosophies of new product development.
Liersch, Joseph
Telephone Engineer & Management, v88, p100(3)
Dec 15, 1984
ISSN: 0040-263X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1836 LINE COUNT: 00151

... years in speeding up the design of new products.
Word Processing prepares technical documentation 3 times faster than
before. It allows the quick reissue of **specifications**, and can also be
used for what might be called "word" or "descriptive" **drawings**.
Interactive **Data Base** provides **computer** generated parts lists,
and electronic sorting to find parts.
Computer Aided Design contributes tremendously to a shortened new
product development interval. The mechanical design utility...

23/3,K/49 (Item 1 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications
(c) 2004 McGraw-Hill Co. Inc. All rts. reserv.

00929307

Hydropower upgrades focus on automation: Leading power producers are automating their aging hydroelectric facilities, making sure that the low-cost, nonpolluting power continues to flow

POWER March/April, 1998; Pg 58; Vol. 142, No. 2

Journal Code: POW ISSN: 0032-5929

Section Heading: Renewables

Word Count: 2,692 *Full text available in Formats 5, 7 and 9*

BYLINE:

By CarolAnn Giovando, Associate Editor

TEXT:

... to write the latest upgrade requirements around Harris RTU components. Economics drove Nipsco's decision to continue to standardize on RTU components.

A detailed equipment **specification** was written to avoid system problems related to availability and reliability. Complete I/O **database**, **drawing** review submittal schedule, **hardware** /software **requirements**, vendor-site tests, and an availability demonstration (A/D) were specified.

To enforce **specification requirements** and encourage productivity, Nipsco tied milestone achievements to vendor payments. Liquidated damages ensured that the vendor did not understaff the project because of internal personnel...

23/3,K/50 (Item 2 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications
(c) 2004 McGraw-Hill Co. Inc. All rts. reserv.

0003310

Geographic sophisticates cash in

Engineering News-Record May 9, 1985; Pg 20; Vol. 214, No. 19

Journal Code: ENR ISSN: 0013-807X

Section Heading: Computers

Word Count: 1,143 *Full text available in Formats 5, 7 and 9*

TEXT:

... into it. City, county and utilities want automated mapping systems even though the cost to convert from manual drawings is enormous," says Barbara A. Emery, **contract** administrator for AM/FM International, a non-profit mapping association based in Englewood, Colo.

The expense of turning paper maps and **drawings** into a **computer data base** has kept utilities and municipalities from going ahead with projects. But the cost of maintaining paper systems may be higher, according to Henry A. Emery...

23/3,K/51 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01740347 03-91337

Distribution construction specifications go online

Wilson, Steven T

Transmission & Distribution World v50n12 PP: 36-40 Nov 1998

ISSN: 1087-0849 JRNL CODE: TMD

WORD COUNT: 1404

...TEXT: CP&L contracted with Interactive Information Systems (IIS), Cary, North Carolina, to place this manual on the company's intranet. The online manual contains comprehensive **drawings**, **assemblies** (compatible **units**), photographs and vendor **specifications**. Hotlinks in each drawing enable

users to access additional information from a centralized corporate Oracle **database** with the click of a mouse. Field and general office personnel can search by drawing number, keywords, assembly number and/or part name.

History

Originally...

... DWF. The URLs are used in conjunction with Cold Fusion software from Allaire, Cambridge, Massachusetts, U.S., to link the graphics in real time to **databases** or related drawings.

Drawing Intelligence

The **database** table information represents assembly information and part descriptions with quantities. Independent **component** or sub-assembly **drawings** are not linked within the overall **specification** drawing. Since CP&L had just completed a process re-engineering program to automate its work orders and construction assembly nomenclature, IIS incorporated this nomenclature...

23/3,K/52 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01704416 03-55406

Tool order

Varley, Peter

Supply Management v3n18 PP: 34-35 Sep 10, 1998

ISSN: 1362-2021 JRNL CODE: SMT

WORD COUNT: 1593

...TEXT: this criterion, and was either in production or was part of the projected work for Eurofighter, was coded and classified. Engineers analysed some 20,000 **component drawings** to build a **database** of the total machining **requirement** in terms of raw material, component size, complexity and accuracy. From this information, components were clustered into families with similar characteristics, and mathematical models were...

23/3,K/53 (Item 3 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01217887 98-67282

Automotive box scores

Anonymous

Manufacturing Engineering v116n5 PP: 16-18 May 1996

ISSN: 0361-0853 JRNL CODE: MFE

WORD COUNT: 427

...TEXT: a goal of 18 months for developing a new model, it installed a CAD system to link its designers and engineers to suppliers and a **database** called **Specification** Management System that gives everyone in the company access to **drawings** of every part and **component**, **specifications**, pricing, and data on suppliers including their ability to produce each component. Designers and engineers will know the costs and **specifications** of the components and vehicles they are working on, including the cost of any modification. Another Toyota experiment worth noting is a "24-hour car ...

23/3,K/54 (Item 4 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

00595444 92-10617

Data Integrity in an IGES Description of Turned Part Geometry

Eshun, Thomas P.; Chen, Chin-Sheng; Owusu-Ofori, Samuel P.; Sarin, Sanjiv
Computers & Industrial Engineering v21n1-4 PP: 459-463 1991
ISSN: 0360-8352 JRNL CODE: CIE

ABSTRACT: The process of converting manually drawn engineering drawings into computer databases in a computer aided design (CAD) format such as initial graphics exchange specification (IGE) via a high resolution scanning device suffers from many inaccuracies. For instance, solid lines in the original drawing may appear as broken lines in...

23/3,K/55 (Item 1 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2004 CMP Media, LLC. All rts. reserv.

00591236 CMP ACCESSION NUMBER: EET19911202S0444
WILL JOINTLY DEVELOP, SELL ELECTROMECHANICAL CAD SYSTEM - Schlumberger,
Valid team up
MARGARET RYAN
ELECTRONIC ENGINEERING TIMES, 1991, n 670, 27
PUBLICATION DATE: 911202
JOURNAL CODE: EET LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: News - Business
WORD COUNT: 700

... From Allegro to Bravo
According to the companies, the resulting interface will be compatible with EDIF (Electronic Data Interchange Format) and IGES (Initial Graphics Exchange Specification) and will allow the transfer of both schematic data and pc-board databases between Bravo3 and Valid's Allegro pc-board-design environment.
The first interface resulting from the joint effort will be delivered by the end of...

23/3,K/56 (Item 1 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0023756 BW169

CORTEX: Cortex's new software product cuts application development time using Picture Programming

September 23, 1986

Byline: Business Editors

...compatible workstation and defines an application specification using icons to diagram a design. Through a transparent link, the workstation is tightly coupled to a central repository on a VAX, which stores all application specifications. This central repository drives the format and content of the front-end workstation diagrams and provides the input specifications to the back-end application generator on the VAX.
In the design phase, a developer can diagram a complete view of the application, including fields...

23/3,K/57 (Item 1 from file: 610)
DIALOG(R)File 610:Business Wire
(c) 2004 Business Wire. All rts. reserv.

00018990 1999081B0043 (USE FORMAT 7 FOR FULLTEXT)
OrCAD Capture CIS Delivers New Internet Resources for Component Data; OrCAD

Capture CIS 9.1 Connects Designers to the Latest Data From the Internet
Business Wire
Monday, March 22, 1999 08:12 EST
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
DOCUMENT TYPE: NEWSWIRE
WORD COUNT: 655

TEXT:

...saving companies time
and money at every stage of the design process. From within Capture
CIS, engineers can access part information from corporate ERP/MRP
databases and from sources on the Internet. The newest version uses
"active" connections between **design documents** and related information
on the Internet. This enables everyone involved in the component
specification process to review the latest information related to
components in a **schematic** or any of the resulting documents with a
single click.

31/9/7 (Item 1 from file: 621)
DIALOG(R) File 621:Gale Group New Prod.Annou.(R)
(c) 2004 The Gale Group. All rts. reserv.

02273654 Supplier Number: 58487789 (THIS IS THE FULLTEXT)
(2) Canadian Ministry of Finance and Others Upgrade PurchaseSoft Electronic
Procurement Systems.

Business Wire, pl390

Dec 17, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 398

TEXT:

MINNEAPOLIS--(BUSINESS WIRE)--Dec. 17, 1999--

Six Other PurchaseSoft Customers Upgrade Software to Newest Version
PurchaseSoft, Inc. (OTCBB:PURC), a provider of business-to-business
e-procurement software for mid-sized organizations, announced that the
Canadian Ministry of Finance, an existing software customer, has added a
second PurchaseSoft solution to its network, and that six other existing
customers have upgraded their current PurchaseSoft systems.

The Canadian Ministry of Finance currently uses PurchaseSoft to
manage procurement for maintenance, repair and operational (MRO) functions
for their department. The new system, PurchaseSoft 5.1, will be used
specifically to manage all IT-related procurement, from requests for
quotations through back-end reporting and analysis.

The customers upgrading to version PurchaseSoft 5.1 include:
Canada-based Brewer's Retail, Inc.; Schroder & Co., Inc.; Gruntal & Co.
LLP, an investment firm; Country Companies Insurance Group; investment firm
Donaldson, Lufkin & Jenrette, Inc.; and accounting firm KPMG, LLP.

PurchaseSoft introduced version 5.1 this past August. The new version
added a web-based interface to facilitate requisitioning and receiving via
the Internet, and the ability to scan and retain ancillary documents, such
as packing lists, images, or **specifications**, in the **database** along with
the **purchase order** and documentation.

"PurchaseSoft 5.1 is a proven end-to-end client/server procurement
solution," said Jeffrey Pinkerton, president of PurchaseSoft. "We are
pleased to provide our current users with leading-edge e-procurement and
sourcing solutions."

PurchaseSoft, Inc. is an industry leader in end-to-end Enterprise
Procurement Management software. The PurchaseSoft family of products
combines over 20 years of procurement expertise with industry-leading
software design and internet technologies. As a result, PurchaseSoft offers
medium and large-sized businesses strategic Procurement Intelligence(TM)
that helps them to significantly reduce costs and increase productivity
through their procurement process and drive more profit to the bottom line.
For additional information, visit www.purchasesoft.com.

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offer to buy any securities of the company. Statements made in this
document that state the company's or management's beliefs or expectations
and which are not historical facts or which apply prospectively are
forward-looking statements. It is important to note that the company's
actual results could differ materially from those contained within or
implied by such forward-looking statements. Additional information
concerning certain risks and uncertainties are discussed under the caption
"Risk Factors" in the Company's Annual Report on Form 10-KSB for the year
ended May 31, 1999.

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PUBLISHER NAME: Business Wire

COMPANY NAMES: *PurchaseSoft Inc

GEOGRAPHIC NAMES: *1USA (United States)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

31/9/19 (Item 3 from file: 16)
DIALOG(R) File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

02853495 Supplier Number: 43841199 (THIS IS THE FULLTEXT)

Byte Systems

Footwear News, pS15

May 17, 1993

ISSN: 0162-914X

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 173

TEXT:

Byte Systems, Greenville, S.C., has introduced an inventory management program for apparel plants called Automatic Inventory Control (AIC).

AIC uses standards adopted by TALC and SAFLINC for both piece goods and trim. Working together with the database built by other Byte applications, AIC enables apparel plants to integrate engineering, production and financial operations into a computerized, plantwide management information system.

AIC operates with or without the Byte **database** built by MODSEW or Piecework Apparel Computer (PAC). It uses time-phased production schedules to plan material **requirements**, maintain perpetual inventory, manage **purchase orders**, forecast usage and handle bill-of-material management.

Byte has also introduced a system for cost-efficient quality assurance management in apparel plants, the Controlled Inspection and Audit (CIA) system.

The CIA system tracks bundles sent for rework, reducing work in process. CIA operates on data in the Byte payroll and production tracking system.

All systems operate in single-user or multi-plant, multi-user environments, and can interface with most financial software. Their architecture allows appropriate EDI with existing internal as well as remote vendor systems.

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PUBLISHER NAME: Fairchild Publications, Inc.

COMPANY NAMES: *Byte Systems

EVENT NAMES: *330 (Product information)

GEOGRAPHIC NAMES: *1USA (United States)

PRODUCT NAMES: *7372430 (Engineering & Scientific Software)

INDUSTRY NAMES: BUSN (Any type of business); FASH (Fashion, Accessories and Textiles)

NAICS CODES: 51121 (Software Publishers)

SPECIAL FEATURES: COMPANY

31/9/20 (Item 4 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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02178933 Supplier Number: 42834095 (THIS IS THE FULLTEXT)

Purchasing power: Getting a little help from HSG

Nation's Restaurant News, p46

March 16, 1992

ISSN: 0028-0518

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Tabloid; Trade

Word Count: 993

TEXT:

PATT PATTERSON

I recently received a letter from a longtime reader, who noted that my columns on purchasing "have featured operations which have gravitated toward building a strong relationship with a single source or primary supplier." The letter went on to describe an alternative approach developed by the writer, James R. Covart, principal in The Hospitality Services Group, Boston.

HSG is a purchasing agent for a group of independent Boston-area foodservice operations. It began more than three years ago with two client operations, according to Covart, and now purchases for nine operators plus a specialized manufacturer of fresh soup for the foodservice trade. HSG

states it's a way for an independent to get the professional buying power of a national account.

Covart has a three-person staff. His own background includes operations and administrative positions at ARA, purchasing for Anthony's Pier 4 and two local independents. "I recognized independent operations were at a disadvantage," Covart said. "We supply that leverage by combining their purchases."

"The Boston marketplace is a very competitive one. In addition to several national full-line suppliers, we also have a large number of independent and family owned suppliers available. Some of these suppliers are multiline vendors, and some are specialty or ethnic-oriented vendors."

Covart pointed out: "We are able to negotiate favorable pricing, received tremendous service (usually same-day or next-day delivery) and find almost any items, no matter how unique, with little difficulty. Perhaps most important, we are able to benefit from the expertise and assistance that only a specialty supplier can offer."

HSG's customers turn over all their purchasing to the firm. "The first thing we do," Covart said, "is to work out detailed specifications for every item with the owner or chef of each client operation. You'd be surprised how often we have heard, 'Sure we have specifications' and then discover that they are something like lunch steak, but our supplier knows exactly what we want."

After the specs are worked up, HSG sets up simple inventory and order forms, similar to those used by single-source suppliers.

The operator sends the filled-out order form to HSG by fax. Since the company will fax its purchase orders to the suppliers at about 4 p.m., the operators fax theirs in by early afternoon for next-day delivery. All the orders are entered into a company-developed **database** that automatically sifts through the various supplier bids, matches **specifications** with lowest price and then generates a **purchase order**, which is sent to the distributor and to the client.

"We do have contracts with two national manufacturers, but the products are warehoused and delivered on a cost-plus basis by local distributors," Covart explained. "We have that type of contract on tomato products, coffee, soft drinks and cleaning supplies. I was surprised that we were able to get all of our clients to agree on a single coffee line."

But Covart said HSG really tries to work through distributors and does very little direct buying. "We need distributors, because we have frequent delivery and relatively small drops. We want to make it profitable for suppliers," he emphasized. "We don't cherry pick. We look for suppliers with a better deal on not just a few items but for entire lines. But we do take advantage of the monthly specials they just about all feature."

What HSG offers suppliers in return is large volume. "Each of our clients buys from 1 million one to 5 million dollars' worth of food a year," Covart said. "We purchase all their food supplies, from perishables to grocery, and we buy supplies like disposables and cleaning items. The only thing we don't buy is alcoholic beverages."

"Price-aggressive distributors have welcomed us, because they can get their foot in the door of accounts they didn't have. But less aggressive vendors are not thrilled because of the lowered margins resulting from tight specifications and bids. We try to be tough but fair. We don't clobber anyone."

Another thing Covart emphasized is that HSG doesn't use its volume leverage for credit. "Our clients have to be stable operations that pay promptly. Particularly now in this recession, we get calls from operations that are looking for extended credit. But under bid purchasing, distributors don't have the margins to serve as bankers for accounts."

HSG gets bids daily from seafood suppliers, weekly on produce and meat and monthly on groceries. "We don't try to hang our perishable distributors on their bids," Covart said. "If one calls and says the price of lettuce just shot up, we'll negotiate a new price."

What does central group purchasing do for HSG's clients? "While each operation is unique," Covart said, "HSG has been able to save from five to 12 percent of (its) participants' total non-alcoholic purchases, with an average net savings of 8 to 10 percent."

According to Covart, savings are generated by following the traditional professional practices of good purchasing: establishing detailed specifications; accurately determining needed quantities;

selecting at least two reliable sources for each item; comparing the quality, service and price offered by each supplier and the proper receiving of each delivery. "By working for several operations, we have been able to remove both the financial and the time constraints associated with this traditional type of purchasing without sacrificing the benefits," Covart said.

Bid buying does present some disadvantages. "We recognize there's a cost to multiple receiving and multiple invoices to pay. On some days a client may receive as many as eight deliveries, and we take that into consideration," Covart said.

Covart also conducts blind tastings of new products for client operations. "We function as a complete purchasing service for our clients," he said.

The Hospitality Services Group Inc.

Boston

Operation: Buying service for nine independent operations, which range from value-oriented to white tablecloth

Seats: Clients have about 1,800 to 2,000

Menu: Wide range of pub food, gourmet, organic, Italian, seafood

Annual food purchases: \$15 million to 20 million

Key buyers: James Covart, Pamela Yellin

COPYRIGHT 1992 Lebhar-Friedman Inc.

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PUBLISHER NAME: Lebhar-Friedman, Inc.

COMPANY NAMES: *Hospitality Services

EVENT NAMES: *220 (Strategy & planning)

GEOGRAPHIC NAMES: *1USA (United States)

PRODUCT NAMES: *5140000 (Groceries & Rel Prods Whsle)

INDUSTRY NAMES: BUSN (Any type of business); TRVL (Travel and Hospitality)

NAICS CODES: 4224 (Grocery and Related Product Wholesalers)

SPECIAL FEATURES: INDUSTRY; COMPANY

31/9/30 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01633761 02-84750

Making it in the competitive world

Koenig, Dan

Mechanical Engineering v120n5 PP: 72-75 May 1998 CODEN: MEENAH ISSN:

0025-6501 JRNL CODE: MEG

DOC TYPE: Journal article LANGUAGE: English LENGTH: 4 Pages

SPECIAL FEATURE: Charts

WORD COUNT: 2672

ABSTRACT: There are a series of steps that all companies producing goods and services go through for each and every product they produce, of which only the very best are consciously aware. These series of events can be called the manufacturing system, falling into seven discrete but interlinked steps. This logical approach to solving the problem of business - how to deliver goods and services on time and at a profit - is as old as the industrial revolution itself. The seven steps are: 1. Obtain product specification. 2. Design a method for producing the product, including design and purchase of equipment and processes for production, if required. 3. Schedule production. 4. Purchase raw materials in accordance with the schedule. 5. Produce in the factory. 6. Monitor results for technical compliance and cost control. 7. Ship the completed product to the customer.

TEXT: Headnote:

A logical, seven-step approach helps solve the problem of how to deliver goods and services on time and at a profit.

WHAT DOES IT really mean to "make it"? If you're an employee of a company, it means you can expect a decent salary and some degree of job security. If you're a supplier, it means that you will get paid on time for goods and

services rendered. If you're a customer, it means you can depend on the company to provide the products you need at proper quality levels and on time in accordance with your schedule. If you're an investor, it means the company's equity will increase and you will reap dividends for the money you've put into the company at a satisfactory rate of return. Yet "making it" has a combined meaning for all stakeholders: It means that their various types of investment are well placed.

What stands to reason is that we all want our companies to make it. Some may say it's the luck of the draw whether a company is making it or not-that the ability to make a profit is buffeted about by so many intangible and uncontrollable variables that business success may be only slightly more predictable than a spin of a roulette wheel-but this is not so. A company can be tops in its field if it does a few things consciously and correctly in its core operation-providing goods and/ or services to its customers. This is not to say that outside influences do not affect the ultimate bottom line. All things being equal, however, companies that are acutely aware of how to do things optimally will always outperform those that are not.

There are a series of steps that all companies producing goods and services go through for each and every product they produce, of which only the very best (and successful) are consciously aware. These series of events can be called the manufacturing system, falling into seven discrete but interlinked steps. This logical approach to solving the problem of business-how to deliver goods and services on time and at a profit-is as old as the industrial revolution itself. The seven steps are: *Obtain product specification. *Design a method for producing the product, including design and purchase of equipment and processes for production, if required. *Schedule production. *Purchase raw materials in accordance with the schedule. *Produce in the factory. *Monitor results for technical compliance and cost control. *Ship the completed product to the customer.

These steps follow a definite sequential order. Yet how many manufacturing companies try to make a product before the design is finalized, then are baffled as to why costs are so prohibitively high? This leads to my operations rule 1: Never attempt a successor step until the predecessor step has really been completed.

The other intuitively obvious observation is that what happens at each step needs to relate to the same set of facts. Often in industry we find that sales has not fully transferred customer requirements to design engineering and manufacturing. So, the company blithely goes about designing and building a product that the customer wants-almost. This leads to my operations rule 2: Make sure the data being acted on at each step of the manufacturing system is identical, or at least consistent.

In short, do everything in business with well-thoughtout logic and make sure the entire team is aware of what the logic is.

The seven steps apply to services and to physical goods. Providing a service is just as much a deliverable as making hard goods. A company that contracts to mow your lawn and trim your shrubs has to go through the same logic as one that is selling you a refrigerator.

OBTAINING PRODUCT SPECIFICATIONS

The first step is to obtain product specifications: This is the sales and product design phase of producing a product. Salespeople have to determine what the customer wants, then transfer the information to the design team, which figures out how to create it. Sales has to be very careful to fully understand the true needs of the customer. Sometimes this is easy, if the business is one where the customer comes to you. Sometimes this is difficult, because customers do not know what they want until the new product is a reality.

Often we think we see a product created, then a market created for it. In reality, marketing and sales discern what the customer wants by focusing on future desires. They obtain product specifications in an abstract

mannertapping the unconscious desires of the public and discerning what their company should produce, always in line with their companies' capabilities.

How do the best companies ensure that product specifications meet their factory's capabilities? At a minimum, they use some form of concurrent engineering team formed from all functions of the company to usher products from conception to distribution. In addition, they use a technique called quality functional deployment (QFD). QFD is a systematic approach to matching a client company's product specification requirements with the producing company's capabilities and creating a probability model for assessing success rates. The producing company knows the level of difficulty it is likely to encounter before a project is started, so management can make a go/no-go decision based on the best available data.

DESIGNING A PRODUCTION METHOD

The next step is to design a method for producing the product, including the design and purchase of equipment and production processes, if required. This used to be considered the manufacturing engineering step, but it is also a continuation of the design phase of step 1. Ever since producibility engineering came along in the early 1980s-and its successor, concurrent engineering, became the integrated way to manufacture-we have recognized that design includes three phases that are dependent on each other.

The first phase is the concept design phase: Here the product specification is tested for compatibility with the laws of science. The second phase is the producibility design phase, where the design is tested to see if it is technically and economically feasible to produce in the intended factory. The third phase is the manufacturing facilities design phase, where the jigs and fixtures and tooling are designed to be compatible with the proposed concept design. At this stage the concept is turned into reality in a manner that satisfies the customer and all of the stakeholders. Everyone must complete the concept phase. Well-run companies put as much effort into the second and third phases as the first, and it pays off.

At this point the design is tested for its robustness. If it isn't robust, there will be many failures in manufacturing, which means low product yield and high manufacturing losses, and probable doom for the product. Examples of companies that perform all three phases effectively abound-it keeps costs down and profits high.

We must have the best-designed factory procedures to produce the best concept design. Companies that put all their creative talent into concept design and then treat creating methods for producing as an afterthought-or worse yet, put lesser talent on that task-will fail.

SCHEDULING FOR PRODUCTION

Scheduling for production is the coordination step; if not done well, it will spell doom for the company. Too many companies have great designs and factories full of great equipment and facilities, but still can't deliver on time, or the "lowest-cost" producer cannot meet his production due date satisfactorily.

The design-step output is used to create a coordinated production schedule for all parts, subassemblies, and assemblies related to your company's products. This involves creating a workstation route-setting forth where work will be done and in what sequence-derived from an engineering bill of materials (BOM). The BOM is really part of the concept design, showing what the product will be made of and what the sequence order of fabrication has to be. With the route and BOM as a guide, the company can construct a coordinated schedule to ensure that the proper parts are done on time to meet all the assembly needs.

Companies sometimes spend enormous sums of money in perfecting designs, yet get themselves into companykilling conflicts by not being able to schedule their factories. Thus, they know what promise dates to give their customers and it is likely they will meet their schedules. This makes them reliable

vendors with the ability to generate additional orders as long as their product meets customer needs.

For companies to schedule effectively, they need to have a manufacturing-resources-planning system (MRP II) that is integrated with a computer-aided processplanning system (CAPP) and driven by cycle times derived from a scientific time standards system. These three items are marketed under different names; a common one is "enterprises-resources-planning system." They all have one thing in common, however: They're driven by a common integrated information system. We call that system computer-integrated manufacturing (CIM). Many times we hear this referred to as the factory of the future. It has a very bright future, and companies need to embrace it wholeheartedly now. There is no other way of performing integrated schedules.

Just in time, a philosophy borrowed heavily from traditional industrial engineering theory, is an excellent way to eliminate waste. In its most popularized form, that's taken to mean the elimination of the waste of excessive inventory on hand. There is nothing wrong with this, but it is not a scheduling system and should not be confused with one.

Service businesses also need MRP II because they need to juggle demands from many customers based on their time frames, or risk losing them to competitors. This means scheduling. Workstations, whether design or even word processing, only do one job at a time. Service firms cannot compete effectively without an MRP II-type scheduling algorithm.

PURCHASING RAW MATERIALS

Coordination is the key to purchasing raw materials in accordance with the schedule. Companies can take advantage of the integrated nature of CIM to use the **database** information from design and scheduling to create **purchase orders** for materials. In fact, the modern MRP II system evolved from materials **requirements** planning, with which make-or-buy decisions were made for every item on the engineering BOM.

By integrating make-or-buy decisions via the MRP II system, companies create seamless integration of internally made and externally purchased items. Materials arrive at a workstation when needed, in accordance with the routing instructions. The integrated nature of the scheduling algorithm makes it possible to purchase materials with enough lead time to ensure on-time delivery. If vendor-supplied items are not coordinated tightly with needs, the ability to deliver on time is jeopardized.

Another way to gain a competitive edge in purchasing is to create a supply chain with the company's vendors. Some companies treat vendors as an extension of their own in-house workstations. Before they engage a vendor they make sure it is qualified to meet high quality standards, just like their own internal operations. They go so far as to assist vendors in upgrading their quality and production management skills so that they do not become weak links in the supply chain. They also, as policy, strive to maintain relationships with specific sets of vendors through long-term contracts for services and supplies.

PRODUCTION IN THE FACTORY

Next is the transformation phase of raw materials to finished product-actual factory production-which is commonly called the value-added step. This is where work is done that directly affects the customer's receivable. This step applies equally to service firms and goods producers.

The best companies make no distinction between external and internal workstations for exercising management control, except that internal workstations are considered to be "owned," while external ones are "rented." They integrate workstation activities based on their master schedule output from MRP II and make no distinctions as to where the workstation is located. They allow, and in fact insist, that vendors have the same scheduling information as their in-house workstations.

Companies can mitigate any differential in labor costs by maintaining tight control on how work is handled at workstations. They use short-interval scheduling techniques that factor in workstation methods, time standards, maintenance criteria, suitability of materials, and operator training, along with established goals set over periods usually no longer than half of a work shift. They also vigorously investigate failures of any kind for root cause and set immediate corrective actions. They view the workstation operator as a member of their production team. This philosophy ensures the best performance on the shop floor and gives a company the highest probability of success yet avoids the constant squandering of resources by chasing low labor cost around the globe.

MONITORING RESULTS

The quality assurance phase of monitoring results for technical compliance and cost control is an ongoing process of constant vigilance and continuous improvement. This step seeks to ensure that the product or service is being provided in accordance with the plan, a plan that includes technical, schedule, and cost goals.

The best companies use total quality management (TQM), whereby improvement is continuous, as exemplified symbolically by the TQM triangle. On this triangle, the customer is at the apex spinning off data about the validity of the work received. This information goes down the leg of the triangle to the right corner as data to be processed. The data go along the base of the triangle becoming an improved process. Process improvements commence at the left corner and go back up to the apex for customer judgment. Then the process starts over again.

There are many approaches to monitoring and controlling processes. By far the most popular is the statistical process control (SPC) technique, which can be tied into the CAPP system for developing process monitoring steps as part of the methods plan. In fact, many companies consider SPC to be part of the integrated CIM approach, whereby SPC action steps are included in the MRP II scheduling algorithm. Most recently we've seen companies use the six-sigma variant of SPC to gain even further competitive advantage by approaching the very difficult goal of zero defect.

As for ISO 9000 registration, by itself it signifies little as to the adequacy of your quality system vis-a-vis the needs of your company. ISO 9000 only states that you have a control system that you follow faithfully and have records to prove it. TQM philosophy, along with tools such as SPC tailored to your customers' needs, makes a viable, effective quality system.

The job is not done, of course, until the purchased product is delivered to the customer on time, complete, and at the expected quality level. Just as a company's vendors are part of its supply chain, it is itself part of its customers' supply chains. The goal of a world-class company is never to be the weak link in any supply chain.

(Table Omitted)

Captioned as: MANUFACTURING COMPETITIVENESS CHECKLIST

Well-run companies use integrated scheduling and control systems to track every aspect of production, then kit goods systematically and only release for shipment when it is all there. They use MRP II as their tool and control mechanism to make it work. Their shipping and warehousing people are trained in distribution controls and are held responsible for inventory control. In fact, their inventory control records are always 99 percent accurate, at a minimum. They know that whatever happened beforehand, the job can be completed only by the customer taking delivery of the product and agreeing that all is in order.

The thread of information cascading from step 1 through step 6 is clear. World-class companies exude communications excellence. They not only

consciously subscribe to the tenets of the manufacturing system but have also integrated the information flow within an all-encompassing CIM system. By doing so, they can respond to opportunities in a dynamic fashion. They can make changes to schedule, designs, SPC checking parameters, contents of shipments-and virtually any other demand made by their customers-many orders of magnitude faster than those companies not consciously aware of the seven steps of the manufacturing system.

Author Affiliation:

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THIS IS THE FULL-TEXT. Copyright American Society of Mechanical Engineers 1998

DESCRIPTORS: Competitive advantage; Manufacturing; Guidelines; Effectiveness; Services

CLASSIFICATION CODES: 8300 (CN=Service industries not elsewhere classified); 8600 (CN=Manufacturing industries not elsewhere classified); 9150 (CN=Guidelines)

31/9/33 (Item 4 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00037802 76-03593

MINI-BASED SYSTEMS CAN AID PRODUCTION PLANNING

WHIPPLE, DONALD G.

MINICOMPUTER NEWS V2 N5 PP: 6 FEB. 26, 1976 JRNL CODE: MIN

DOC TYPE: Journal article LANGUAGE: English

ABSTRACT: MANUFACTURING MANAGEMENT SYSTEMS THAT OFFER INTEGRATED PLANNING AND CONTROL, SOURCE DATA-ENTRY, AND ON-LINE DATA INQUIRY MAY NOW BE IMPLEMENTED ON LOW-COST MINICOMPUTERS. EVEN COMPANIES WITH ONLY \$1-MILLION IN SALES CAN AFFORD SUCH A SYSTEM. MANY CONSULTING FIRMS ARE DESIGNING MANUFACTURING SYSTEMS ON MINIS. THE SYSTEMS ARE MADE UP OF INTEGRATED DATA - BASES AND PROGRAM MODULES. THE MODULES INCLUDE SUCH THINGS AS MATERIAL REQUIREMENTS PLANNING, COST-ACCOUNTING AND PURCHASE - ORDER CONTROL. THE SYSTEM RUNS FROM \$75,000-\$150,000 AND CAN BE INSTALLED IN 6-9 MONTHS. IT HELPS ELIMINATE SUCH CHRONIC PROBLEMS AS EXCESS INVENTORY, MATERIAL SHORTAGE RESULTING FROM ORDERING LATE, AND POOR QUALITY SERVICE RESULTING FROM LONG LEADTIMES.

31/3,K/1 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01459091 SUPPLIER NUMBER: 11466402 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Claris software bundles for creative services providers. (marketing
agreement with Veritechnology Electronics Corp.)**
Wallach, Naor
Newsbytes, NEW11080006
Nov 8, 1991
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 392 LINE COUNT: 00033

... package address areas such as: creative briefs, conference reports,
travel authorizations, check requests, cash advances, **purchase orders** ,
insertion order forms, media estimates, media schedules, job system project
schedules, print **specification** forms, client **databases** , fax cover
sheets, memo templates, print and broadcast production estimate formats,
and advertising campaign, direct...

31/3,K/2 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01297196 SUPPLIER NUMBER: 07598933 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Forms software fills in the blanks. (Software Review) (overview to
evaluations of 17 forms generation packages) (includes related articles on
high-end forms processing and alternative approaches to forms software)
(evaluation)**
Fersko-Weiss, Henry
PC Magazine, v8, n11, p139(32)
June 13, 1989
DOCUMENT TYPE: evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 4060 LINE COUNT: 00303

... data
* Export data from a filled-in form to a database.
The simple form, a **purchase order** form from a standard forms
catalogue, tests the most-basic design skills of the **programs** . To
exercise the packages with more-sophisticated features and capabilities, we
used a travel expense form that was created according to our
specifications by FormGen Corp., the makers of FormGen Plus.
In addition to the packages we review...

31/3,K/3 (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01245575 SUPPLIER NUMBER: 06298594 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Just getting started: worldwide traders testing EDI maintain their
motivation despite complexities and obstacles. (electronic data
interchange)**
Wheatman, Victor S.
Software Magazine, v8, n4, p52(5)
March 15, 1988
ISSN: 0897-8085 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 3230 LINE COUNT: 00277

... which carries CAD/CAM drawings, will be used in the worldwide
apparel industry to transport **specifications** to manufacturers along with
electronic **purchase orders** .
Various databases of tariffs, trade restrictions and trade
opportunities are now available. Vendors are beginning...

31/3,K/4 (Item 4 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01239048 SUPPLIER NUMBER: 06202848 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Microcomputer databases gaining valuable ground. (buyers guide)
Jenkins, Avery
PC Week, v5, n4, p53(9)
Jan 26, 1988
DOCUMENT TYPE: buyers guide ISSN: 0740-1604 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2087 LINE COUNT: 00163

... into each order. In addition to the usual fields such as customer name and address, **purchase order** number and job number, Mr. Richards' **database** also had to contain fields such as paper code, paper weight, type **specifications**, and stub size.

"In our order entry, there is a tremendous amount of detail," he...

31/3,K/5 (Item 5 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01213072 SUPPLIER NUMBER: 06204447 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Electronic data interchange use moves from the few to the many: supplier links. (The 19th National EDI Systems Forum and Exhibit) (Section 2: Connectivity)
Steinberg, Don
PC Week, v4, n50, pC1(2)
Dec 15, 1987
ISSN: 0740-1604 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1304 LINE COUNT: 00105

... A customer-access system of the future might let customers examine product price lists or **specification** sheets from an on-line **database** maintained by a supplier, then load pricing information directly into an EDI **purchase order**, he explained.

The companies that have been EDI pioneers all along are expected to drive...

31/3,K/6 (Item 6 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01169802 SUPPLIER NUMBER: 04739081
Of MISys and management. (Software Review) (Microcomputer Specialists' MISys Manufacturing Inventory System) (evaluation)
Popp, Robert J.
PC World, v4, n12, p246(6)
Dec, 1986
DOCUMENT TYPE: evaluation ISSN: 0737-8939 LANGUAGE: ENGLISH
RECORD TYPE: ABSTRACT

...ABSTRACT: on inventory control, MISys tracks and produces bills of material, maintains inventory records, analyzes production **requirements** on a limited "what if" basis, identifies shortages, generates **purchase orders**, and ports data to various **database** and spreadsheet **programs**, particularly Computer Associates' Easy-Business modules, for financial analysis. MISys also offers access controls, 27...

31/3,K/7 (Item 1 from file: 621)
DIALOG(R)File 621:Gale Group New Prod. Annou. (R)
(c) 2004 The Gale Group. All rts. reserv.

02273654 Supplier Number: 58487789 (USE FORMAT 7 FOR FULLTEXT)

(2) Canadian Ministry of Finance and Others Upgrade PurchaseSoft Electronic Procurement Systems.

Business Wire, p1390

Dec 17, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 398

... and the ability to scan and retain ancillary documents, such as packing lists, images, or **specifications**, in the **database** along with the **purchase order** and documentation.

"PurchaseSoft 5.1 is a proven end-to-end client/server procurement solution...

31/3,K/8 (Item 2 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2004 The Gale Group. All rts. reserv.

02262883 Supplier Number: 58295568 (USE FORMAT 7 FOR FULLTEXT)

Canadian Ministry of Finance and Others Upgrade PurchaseSoft Electronic Procurement Systems.

Business Wire, p1374

Dec 17, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 398

... and the ability to scan and retain ancillary documents, such as packing lists, images, or **specifications**, in the **database** along with the **purchase order** and documentation.

"PurchaseSoft 5.1 is a proven end-to-end client/server procurement solution...

31/3,K/9 (Item 3 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2004 The Gale Group. All rts. reserv.

02240556 Supplier Number: 57764974 (USE FORMAT 7 FOR FULLTEXT)

LABMATE Users Request Add-On Module List.

PR Newswire, p1554

Nov 23, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1601

... validations in LABMATE.

The new recall date
is calculated using
conditional data based
on user **specification**.

MOD 083 Purchase Order
Management System
archive purchase orders...

Allows you to create,
track, maintain &

31/3,K/10 (Item 4 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2004 The Gale Group. All rts. reserv.

01129841 Supplier Number: 41062757 (USE FORMAT 7 FOR FULLTEXT)

STRATEGIC BUSINESS SYSTEMS INTRODUCES SPECTRONICS SYSTEMS SOFTWARE

News Release, p1

Dec 12, 1989

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 531

... review," he added.

Gaffney added that Spectronics can be tailored to "bundle" individual groups of **specifications** and standards for individual user groups. "We can also work with any company to tailor a database to suit individual contract or **purchase order requirements**

. Our research

shows a tremendous market for customized spec./standardization databases in such areas as...

31/3,K/11 (Item 5 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2004 The Gale Group. All rts. reserv.

01019229 Supplier Number: 39674656 (USE FORMAT 7 FOR FULLTEXT)

GOULD INTRODUCES NEW REMOTE SENSING SYSTEM

PR Newswire, pN/A

Jan 14, 1986

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 325

... Business Section. The resulting integrated system is designed to meet the needs of high computation **requirements** and large **data base**

manipulation, and offers customers the advantage of placing a single source purchase order and obtaining...

31/3,K/12 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2004 The Gale Group. All rts. reserv.

04435496 Supplier Number: 55813069 (USE FORMAT 7 FOR FULLTEXT)

COLLINS ASSOCIATES: OpenOffice R5 launching at So Softworld Sales, Marketing and Customer Management'99.

M2 Presswire, pNA

Sept 20, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 362

... and Expense Processing and Requisitions and Purchase Order Processing.

A sub-set of the OpenOffice **database** (allocated according to the individual user **requirements**) is stored on each individual WinCE device. (For example a sales reps might only be...

31/3,K/13 (Item 2 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2004 The Gale Group. All rts. reserv.

03664097 Supplier Number: 47892467 (USE FORMAT 7 FOR FULLTEXT)

LIGHTSTREAM COMMUNICATIONS: A web-based content booking and order-entry system for IFE

M2 Presswire, pN/A

August 6, 1997

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 599

... transmit content orders over the Internet to content providers and Crest simultaneously. Crest, utilizing its **database** of airline materials **specifications** , would cost out the job and issue a **purchase order** to

the content provider.

if the content provider accepts the order, issuance of the confirmation...

31/3,K/14 (Item 3 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

02917063 Supplier Number: 45932695 (USE FORMAT 7 FOR FULLTEXT)
UCC REACHES OUT TO SMALL BUSINESSES, STREAMLINES EDI
EDI News, v9, n23, pN/A
Nov 13, 1995
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 808

... different partners, and each one uses a different value-added network (VAN) with different mapping **requirements** .

"All the databases between companies must be in sync. The first part of each purchase...

31/3,K/15 (Item 4 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

02773473 Supplier Number: 45628389 (USE FORMAT 7 FOR FULLTEXT)
COMPUTER PUNDITS RELEASES NEW SOFTWARE.
EDI News, v9, n13, pN/A
June 26, 1995
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 138

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...point and click (or touch the screen) to select criteria. The software will search its **database** and present the items that fit the users' **specifications** . Catalog Builder allows the customer to generate a **purchase order** or place orders on-line, as well. It allows companies to put their catalogs on...

31/3,K/16 (Item 5 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01627746 Supplier Number: 42508759 (USE FORMAT 7 FOR FULLTEXT)
Claris Software Bundles For Creative Services Providers 11/08/91
Newsbytes, pN/A
Nov 8, 1991
Language: English Record Type: Fulltext
Document Type: Newswire; General Trade
Word Count: 368

... package address areas such as: creative briefs, conference reports, travel authorizations, check requests, cash advances, **purchase orders** , insertion order forms, media estimates, media schedules, job system project schedules, print **specification** forms, client **databases** , fax cover sheets, memo templates, print and broadcast production estimate formats, and advertising campaign, direct...

31/3,K/17 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

05393979 Supplier Number: 50296650 (USE FORMAT 7 FOR FULLTEXT)

V-Systems ships VSI-fax software

Unix & NT News, p48

Nov, 1997

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 198

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...machines. According to VSI, the new fax product allows users to take information from corporate **databases** to automatically create and fax personalised price change notices, overdue account letters, **purchase orders**, shipping notifications, product **specification** revisions, and countless other routine, yet crucial, business practices.

31/3,K/18 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

02958957 Supplier Number: 44005431 (USE FORMAT 7 FOR FULLTEXT)

Open1 finance solution

UNIX News, p48

August, 1993

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 158

... package also supports Microsoft's ODBC, SQL Access Group SQL Access and IBM's DRDA **database** access **specifications**.

Open1 modules include general ledger, receivables and payables, cash management, capital projects, fixed assets, purchase...

...enhancements to the software will include support for Microsoft Corp's Object Linking and Embedding **specification** and multimedia, Financial Solutions says. Available now Open1 is priced at \$1,000 per seat.

31/3,K/19 (Item 3 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

02853495 Supplier Number: 43841199 (USE FORMAT 7 FOR FULLTEXT)

Byte Systems

Footwear News, pS15

May 17, 1993

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 173

... operations into a computerized, plantwide management information system.

AIC operates with or without the Byte **database** built by MODSEW or Piecework Apparel Computer (PAC). It uses time-phased production schedules to plan material **requirements**, maintain perpetual inventory, manage **purchase orders**, forecast usage and handle bill-of-material management.

Byte has also introduced a system for...

31/3,K/20 (Item 4 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

02178933 Supplier Number: 42834095 (USE FORMAT 7 FOR FULLTEXT)

Purchasing power: Getting a little help from HSG

Nation's Restaurant News, p46

March 16, 1992

Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Tabloid; Trade
Word Count: 993

... early afternoon for next-day delivery. All the orders are entered into a company-developed **database** that automatically sifts through the various supplier bids, matches **specifications** with lowest price and then generates a **purchase order**, which is sent to the distributor and to the client.

"We do have contracts with...

31/3,K/21 (Item 5 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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01702014 Supplier Number: 42120737 (USE FORMAT 7 FOR FULLTEXT)
IF THE SYSTEM FITS
UNIX News, p40
June, 1991
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1155

... company's DP department developed and introduced a number of applications, integrated with the central **databases**. **Purchase order** processing was introduced. Development of a **Specifications** package was started that could, for any shoe style, produce a complete Bill of Materials...

31/3,K/22 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

09785787 SUPPLIER NUMBER: 19855806 (USE FORMAT 7 OR 9 FOR FULL TEXT)
New Version of VSI-FAX Network Software Expands Cross-Platform Fax Strategy
PR Newswire, p1014LATU042
Oct 14, 1997
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 908 LINE COUNT: 00084

... deploy fax technology within a messaging infrastructure.
For example, users can take information from corporate **databases** to automatically create and fax personalized price change notices, overdue account letters, **purchase orders**, shipping notifications, product **specification** revisions, and countless other routine, yet crucial, business practices. By using VSI-FAX to integrate...

31/3,K/23 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

07895159 SUPPLIER NUMBER: 16924733 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Software buyers' guide. (Buyers Guide)
Purchasing, v118, n8, p59(6)
May 18, 1995
DOCUMENT TYPE: Buyers Guide ISSN: 0033-4448 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 6644 LINE COUNT: 00579

... easily accessible from either a standalone or LAN version of PIC. Modules included are: Supplier **Database**, **Purchase Order**, Receiving, Overdue, Expedite, Directory, Cash Flow, Business Cards. More than 60% of **programs** have been modified to meet **requirements** of state governments, schools, offices, and industrial companies. PIC requires an IBM or compatible PC...

31/3,K/24 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

06763521 SUPPLIER NUMBER: 14681689 (USE FORMAT 7 OR 9 FOR FULL TEXT)
CORPORATE-UNIVERSITY ALLIANCE CREATES CABLE-BASED INTERACTIVE MULTIMEDIA
NETWORK; PARTNERS LAUNCH SUPERHIGHWAY FOR MANUFACTURERS
PR Newswire, p1202NE013
Dec 2, 1993
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 893 LINE COUNT: 00081

... and others."
Network users will access a wide variety of interactive software applications and information **repositories**. Applications fall into two broad types. Text-based applications handle administrative functions, letting manufacturers bid jobs, execute **purchase orders**, revise product **specifications**, and perform scores of other tasks. Visual-based applications let users transmit images, the information...

31/3,K/25 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

06495652 SUPPLIER NUMBER: 14107788 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The fount of all knowledge. (Plasware Manufacturing Management System, version 2) (Software Review) (Evaluation)
British Plastics & Rubber, p28(3)
May, 1993
DOCUMENT TYPE: Evaluation ISSN: 0307-6164 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 2270 LINE COUNT: 00178

... productive work can be done. This is accomplished through management modules which link to the **database**. The choice is extensive; stock control, order processing, materials **requirement**, production planning and control, works documentation, labelling, invoicing, **purchase orders**, and so on. The modular structure enables the user to get started at modest cost...

31/3,K/26 (Item 5 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

05912092 SUPPLIER NUMBER: 12410797 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Production update: electronic-data technology puts firm on cutting edge.
(Label America Inc. uses computer software to facilitate purchase of roll-label materials)
Rose, Jan
Paper, Film and Foil CONVERTER, v66, n4, p53(2)
April, 1992
ISSN: 0031-1138 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 881 LINE COUNT: 00070

... freeing that time for other duties. FasCom has assisted Label America to reduce errors in **purchase orders**. The **program** computes trim and slitting information, and a customer-monitored **data base** allows customers to order by Fasson **specifications** or their own part numbers.

"We have no pricing errors, no trim errors, no spec...

31/3,K/27 (Item 6 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2004 The Gale Group. All rts. reserv.

05814511 SUPPLIER NUMBER: 12052383 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Purchasing power: getting a little help from HSG. (James R. Covart of the
Hospitality Services Group Inc. gives advise on purchasing) (Column)**
Patterson, Patt
Nation's Restaurant News, v26, n11, p46(2)
March 16, 1992
DOCUMENT TYPE: Column ISSN: 0028-0518 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 1002 LINE COUNT: 00079

... early afternoon for next-day delivery. All the orders are entered into a company-developed **database** that automatically sifts through the various supplier bids, matches **specifications** with lowest price and then generates a **purchase order**, which is sent to the distributor and to the client.

"We do have contracts with...

31/3,K/28 (Item 7 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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02830521 SUPPLIER NUMBER: 04427198 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Pioneer in electronic publishing still blazing new trails. (Jim Parker of
Pratt & Whitney's Government Products Div.) (pre-press imaging -
computer-aided publishing)**
Cronin, Kate
Graphic Arts Monthly, and The Printing Industry, v58, pS42(2)
Feb, 1986
ISSN: 0017-3312 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1322 LINE COUNT: 00106

... vendor Pratt & Whitney chose to work with was Wang, to bring their office and text **requirements** up to speed. Parker was looking for a computer system offering the distributed processing that...

...on one processing unit: data processing, word processing, and telecommunications, as well as run application **programs** available through third-party vendors. As part of the **purchase agreement**, he also convinced Wang to make a few modifications within its **database** management system to more closely meet Pratt & Whitney's application needs.

Next, Parker looked for...

31/3,K/29 (Item 8 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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02333056 SUPPLIER NUMBER: 03831775 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**A plant engineer's guide to microcomputer applications software.
(directory) (illustration)**
Katzel, Jeanine
Plant Engineering, v39, p48(24)
June 27, 1985
DOCUMENT TYPE: illustration ISSN: 0032-082X LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 37018 LINE COUNT: 02961

... for facility and plant equipment maintenance. Available modules include work-order control, equipment history and **specifications**, preventive maintenance, parts inventory and **purchase - order** control, and cost and management information reporting. **Program** is written in PICK basic and runs on any microcomputer using the PICK operating system...

31/3,K/30 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)
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01633761 02-84750

Making it in the competitive world

Koenig, Dan

Mechanical Engineering v120n5 PP: 72-75 May 1998

ISSN: 0025-6501 JRNL CODE: MEG

WORD COUNT: 2672

...TEXT: the schedule. Companies can take advantage of the integrated nature of CIM to use the **database** information from design and scheduling to create **purchase orders** for materials. In fact, the modern MRP II system evolved from materials **requirements** planning, with which make-or-buy decisions were made for every item on the engineering...

31/3,K/31 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2004 ProQuest Info&Learning. All rts. reserv.

01119716 97-69110

Metadata - Information about electronic records

Phillips, John T Jr

Records Management Quarterly v29n4 PP: 52-55+ Oct 1995

ISSN: 1050-2343 JRNL CODE: RMQ

WORD COUNT: 3167

...TEXT: focused on helping them get a handle on the interaction between data elements in a **database** and the software **programs** that will access the data. As an example, they are interested in such questions as "Can a single **purchase order** contain more than one item to be purchased?" (Such a relationship would be considered a...

...in how long the data within the purchase order must be kept to meet the **requirements** of a business procedure or a government regulation. In this mode, they are similar to a person with a shovel that is digging a trench according to **specifications** --two feet wide and four feet deep. Where the trench leads or what it will...

31/3,K/32 (Item 3 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00321193 86-21607

Using Relational Databases

Pinkerton, Jeff

Purchasing World v30n6 PP: 74-76 Jun 1986

ISSN: 0093-1659 JRNL CODE: PCW

ABSTRACT: A **database** program used to manage **purchasing orders** can be used to assist expediting. By establishing one or 2 simple output reports from the **database**, it can signal which orders need expediting.

Specifications required are: 1. the conditions that define the order to be expedited, 2. database information...

31/3,K/33 (Item 4 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00037802 76-03593

MINI-BASED SYSTEMS CAN AID PRODUCTION PLANNING

WHIPPLE, DONALD G.

MINICOMPUTER NEWS V2 N5 PP: 6 FEB. 26, 1976

JRNL CODE: MIN

...ABSTRACT: CONSULTING FIRMS ARE DESIGNING MANUFACTURING SYSTEMS ON MINIS. THE SYSTEMS ARE MADE UP OF INTEGRATED **DATA - BASES** AND **PROGRAM** MODULES. THE MODULES INCLUDE SUCH THINGS AS MATERIAL **REQUIREMENTS** PLANNING, COST-ACCOUNTING AND **PURCHASE - ORDER** CONTROL. THE SYSTEM RUNS FROM \$75,000-\$150,000 AND CAN BE INSTALLED IN 6...

31/3,K/34 (Item 1 from file: 674)
DIALOG(R)File 674:Computer News Fulltext
(c) 2004 IDG Communications. All rts. reserv.

012591

TRW implements Rhapsody to streamline purchasing

Electronics firm expects to reap big savings.

Byline: Wayne Eckerson, Senior Editor

Journal: Network World Page Number: 2

Publication Date: January 07, 1991

Word Count: 945 Line Count: 68

Text:

... screens and download data needed to draw up requests for quotes, evaluate bids and develop **specifications** for the final **purchase order**

The data bases contain information on such items as purchase orders, general purchasing and accounting...

?

004465

Steely determination: Ingersoll forges a flexible strategy

Byline: Paul Gillian; Gillin is Computerworld's executive editor.

Journal: Computerworld Page Number: 81

Publication Date: February 19, 1990

Word Count: 1400 Line Count: 101

Caption(s): picture, George Hess

Text:

The company builds the largest machines of their kind, but it's tiny bits of information that make Ingersoll Milling Machine Co. the envy of its industry.

Ingersoll's machining lines and metal milling products, some examples of which stand up to three stories high, turn hunks of steel into things like automobile engine blocks, turbine housings and molds for glass television screens.

You can pick just about any computerized manufacturing technology that comes to mind, and it's probably used at Ingersoll. Computer-integrated manufacturing (CIM), the dauntingly complex technology of getting factory lines to turn out products at optimum speeds with minimum waste or inventory, has been used in some capacity since 1974. Flexible manufacturing systems are used to mill small machine parts in lots of one with virtually instant retooling. Numerical control systems are almost eliminating the human error factor in cutting blocks of steel into complex machine parts. And Ingersoll is well into a pilot project to fold expert systems into its operations.

The driving force behind it all is a technology-oriented corporate culture and the nature of its business. Most of Ingersoll's work is built only once, sometimes while the customer is still designing it. "We're really an engineering firm," says George Hess, Ingersoll's vice-president of systems and planning. As a result, the company puts a premium on flexibility.

Helping it stay flexible is Ingersoll's unusually high level of manufacturing integration. Its diverse operations use a common database, and a computer schedules each day's activities on the company's 785,000 square feet of shop floor. A 42 million instruction per second Hitachi Data Systems, Inc. (HDS) XL-80 mainframe drives the whole operation, with links between engineers on Ingersoll's 217 computer-aided design and manufacturing (CAD/CAM) terminals and such functions as purchasing, billing, order handling, payroll and even the machines on the shop floor. For example:

An engineer can create a **drawing** for a custom **machine** tool on IBM's Cadam software and simultaneously specify what parts will be needed to build it. The system consults the **database**, automatically cuts **purchase orders** for whatever parts the company needs to buy and schedules shop time to build the parts that need to be custom-milled. The system ensures that the parts come together at the right time to minimize time spent sitting in inventory.

An aggressive move into flexible manufacturing has put wire-guided vehicles into the so-called light machining area, where smaller parts are made. The vehicles shuffle pallets back and forth onto the milling machines and bide their time while the chunks of steel are shaved and drilled into finished machine parts. The whole process is managed by Digital Equipment Corp. VAX minicomputers linked to the HDS mainframe, using instructions supplied by numerical control engineers. Humans are needed only to lock the raw steel castings into position. The procedure is "twice as productive and four times as accurate" as the manual process it replaced, says Lute Wyttenbach, Ingersoll's manager of numerical control.

A computerized "nesting" system determines the most efficient way to carve raw plates of steel into the pieces needed for the finished machinery. By automating this process, which used to be planned with paper and scissors, Ingersoll reduced manpower requirements on its torch cutting machine by 90%. More importantly, the system is linked into the bill-of-material, routing, payroll, cost and master scheduling systems, minimizing the amount of time finished steel shapes are held in inventory.

Innovations like these have garnered a closetful of manufacturing awards for Ingersoll in a segment of the market now known for computerization.

Sterling reputationTimes weren't always so good, but Ingersoll's technological stamina and its tradition of fiercely private ownership enabled it to weather the storms of American heavy industry in good shape. "They're one of the most highly respected machine tool makers in the world," says Gary Vasilash, editor of Production magazine. "The stuff they produce is world class."

Because orders are so large --- a single machine can cost more than \$6 million and a whole system more than \$30 million and take up to two years to design and build --- and subject to the ups and downs of the heavy manufacturing industry, Ingersoll has had its share of financial hard times. In the mid-'80s, when the farm equipment industry was in the dumps, Ingersoll borrowed money to keep afloat with minimal layoffs.

The company has also faced aggressive competition from overseas companies, which have increased their dollar market share in milling machine tools from 29% in 1983 to 40% in 1988, according to government figures.

But Ingersoll has kept retooling through the highs and lows, and today officials say the backlog of work is larger than ever. Employing 4,500 people at plants in Rockford, Ill., and West Germany, Ingersoll has a \$450 million share of the \$5 billion machine tools market. It is the 12th largest machine tools maker in the U.S., according to American Machinist magazine.

At the core of that success is the technology focus that exists within the company. "The whole culture of Ingersoll is that we're forever pushing the state of the art," says Stephen Lewis, vice-president of manufacturing at the company.

Hess attributes much of that attitude to Edson Ingersoll Gaylord, chairman and chief executive officer of the family-owned company. "In the 1970s, Gaylord came to each department head and asked what we needed to compete not in the 1980s, but in the 1990s," Hess says.

For IS, the answer was an integrated database. So in 1979, IS suspended all application development for two years while it melded a patchwork of 225 different file systems into a single database under IDMS, the database management system now sold by Computer Associates International, Inc.

When the system went live in 1980, the 1,300 applications within Ingersoll were virtually unchanged but were all sharing the same data. "Instead of the businesses controlling us, we were controlling the business," Hess says. Since then, Ingersoll has expanded its CIM system to what it is today, writing virtually everything internally.

Expert systems are spearheading Ingersoll's next IS move as the company leaves what Hess calls the "integration decade" of the '80s and enters the "optimization decade" of the 1990s. It has built a pilot expert systems application that captures expert knowledge about parts purchasing.

Ingersoll is also installing the Cimplex system to lend expert advice to design and production. Hess wants the system to advise engineers on how to design a part for maximum producibility, test the design and program the machines on the factory floor to produce the part with minimum human involvement.

33/3,K/1 (Item 1 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

(c) 2004 The Gale Group. All rts. reserv.

02686536 SUPPLIER NUMBER: 98372053 (USE FORMAT 7 OR 9 FOR FULL TEXT)

In search of ... the good search: the invisible elephant.

Arnold, Stephen E.

Searcher, 11, 3, 40(12)

March, 2003

ISSN: 1070-4795 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 7989 LINE COUNT: 00905

... are the collections of content that defy the mainstream, text-centric search engine. Music, videos, **computer** -aided drafting **diagrams** with a **database** of **parts** and prices, medical images, and audio content are not searchable with the software that falls electronic mail message with an Excel attachment in a forwarded message, **purchase order** information in CICS system files, and streaming audio from radio stations are just four examples...

33/3,K/2 (Item 2 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

(c) 2004 The Gale Group. All rts. reserv.

02469720 SUPPLIER NUMBER: 69545130 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Corralling Content. (Technology Information)

Schwartz, Mathew

Computerworld, 80

Nov 27, 2000

ISSN: 0010-4841 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1818 LINE COUNT: 00150

... Xpedio from IntraNet Solutions.

The software has just gone live and is backed by three **repositories** : records, which contains items such as **purchase orders** and accounting vouchers; general corporate documents, such as PowerPoint presentations or video; and **computer** -aided design **drawings** , primarily of power transmission technology. Three different **repositories** were chosen, says Williamson, "because of the volume of documents, but also because metadata attributes...

...define how you store the documents, do the searches and so forth are different." Those **repositories** will drive internal document management and sharing, and where appropriate, such as with news releases...

33/3,K/3 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2004 The Gale Group. All rts. reserv.

02256228 Supplier Number: 44320503 (USE FORMAT 7 FOR FULLTEXT)

CORPORATE-UNIVERSITY INTERACTIVE MULTIMEDIA CABLE NETWORK ANNOUNCED

Online Newsletter, v15, n1, pN/A

Jan, 1994

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 495

... being developed.

Network users will access a wide variety of interactive software applications and information **repositories** . Applications will fall into two broad types: text-based, and visual-based. Text-based applications handle administrative functions, letting manufacturers bid jobs, execute **purchase orders** , revise product specifications, and perform scores of other tasks. Visual-based applications let users transmit images -- the information format used most in manufacturing. Images transmitted include two- or three-dimensional **computer** -aided design (CAD) **drawings** , white

boarding, video-desktop applications, electronic mail, videoconferencing, and multimedia presentations.

The network began a...

33/3,K/4 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

15833173 SUPPLIER NUMBER: 101530414 (USE FORMAT 7 OR 9 FOR FULL TEXT)
)

Financial and business statistics.(reserve and money stock measures; statistical list for 2002)

Federal Reserve Bulletin, 89, 4, A1(54)

April, 2003

ISSN: 0014-9209 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 19459 LINE COUNT: 10212

... 11.8
75 Agricultural 8.3 8.1
76 Federal funds sold to and
repurchase **agreements**
with others 20.5 26.0
77 All other loans 70.8 72.1
78...all U.S. Treasury securities and other
short-term debt securities.

SOURCE. Investment Company Institute. **Data based on**
reports of membership, which comprises substantially
all open-end investment companies registered with the...

33/3,K/5 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

07611171 SUPPLIER NUMBER: 16529820 (USE FORMAT 7 OR 9 FOR FULL TEXT)

No matter what you call it, high-quality uptime is the outcome. (plant maintenance)

Vasilash, Gary S.

Production, v106, n12, p44(2)

Dec, 1994

ISSN: 0032-9819 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1040 LINE COUNT: 00079

... must become an integral part of the reliability-based function,"
Moore says, explaining that the **purchase order** for machinery ought to
contain information on such things as alignments, balances, and hot spots
...

...is a base line to which future measurements can be compared. Also, there
should be **drawings** and **parts** lists accompanying the new (or rebuilt)
equipment; this information is entered into a **database** along with the
base line information so that when there are problems, they can be...

33/3,K/6 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

06763521 SUPPLIER NUMBER: 14681689 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**CORPORATE-UNIVERSITY ALLIANCE CREATES CABLE-BASED INTERACTIVE MULTIMEDIA
NETWORK; PARTNERS LAUNCH SUPERHIGHWAY FOR MANUFACTURERS**

PR Newswire, p1202NE013

Dec 2, 1993

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 893 LINE COUNT: 00081

... and others."

Network users will access a wide variety of interactive software applications and information **repositories**. Applications fall into two broad types. Text-based applications handle administrative functions, letting manufacturers bid jobs, execute **purchase orders**, revise product specifications, and perform scores of other tasks. Visual-based applications let users transmit...

...the information format used most in manufacturing. Images transmitted include complex two- or three-dimensional **computer** aided design (CAD) **drawings**, white boarding, video-desktop applications, electronic mail, videoconferencing and multimedia presentations.

Network Connects Primes to...

33/3,K/7 (Item 1 from file: 674)
DIALOG(R)File 674:Computer News Fulltext
(c) 2004 IDG Communications. All rts. reserv.

004465

Steely determination: Ingersoll forges a flexible strategy

Byline: Paul Gillian; Gillin is Computerworld's executive editor.

Journal: Computerworld Page Number: 81

Publication Date: February 19, 1990

Word Count: 1400 Line Count: 101

Text:

...and even the machines on the shop floor. For example:

An engineer can create a **drawing** for a custom **machine** tool on IBM's Cadam software and simultaneously specify what parts will be needed to build it. The system consults the **database**, automatically cuts **purchase orders** for whatever parts the company needs to buy and schedules shop time to build the...

program and embedded chip identified during the inventory process.

- * Various data migration tools assist with data conversions and bridging activities to ensure that converted code works properly and doesn't create additional, functional problems.

- * Testing and verification tools, which should be part of any Y2K project, execute system-level tests and verify the results.

- * Estimation tools, project management software, and other automation tools may also play a role in your Year 2000 project. These tools can assist the project manager with keeping the project on track and identifying potential resource bottlenecks.

A directory of Y2K testing tools can be found on page 19.

Leland G. Freeman is vice president of The Source Recovery Company, LLC, in Framingham, Massachusetts. He's a frequent lecturer and author on the Year 2000 computer crisis. (770)650-1090, <http://www.source-recovery.com/>, lfreeman@cwix.com.

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DESCRIPTORS: Year 2000 transition; Systems management; Management issue; MIS

FILE SEGMENT: CD File 275

37/9/4 (Item 4 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01765981 SUPPLIER NUMBER: 16742870 (THIS IS THE FULL TEXT)

Pair of enterprise servers move to head of the class: Compaq, Tricord above average; ALR, Unisys below par. (Compaq ProLiant 4000 Model 5/100, Tricord Systems' ES3000 HR/5100C, Advanced Logic Research Revolution Q-4SMP 100 and Unisys PW2 Advantage Series SFE 510010) (includes related article on test methods) (Hardware Review) (Evaluation)

Katz, William F.

PC Week, v12, n12, p75(4)

March 27, 1995

DOCUMENT TYPE: Evaluation ISSN: 0740-1604

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2923 LINE COUNT: 00225

ABSTRACT: Compaq's \$71,454 ProLiant 4000 Model 5/100 and Tricord Systems' \$192,115 ES3000 HR/5100C 100MHz Pentium enterprise servers earn top ratings for significant performance advantages and mainframe-caliber manageability for large-scale settings. The ProLiant delivered performance similar to the ES3000 in tests and provides excellent Insight Manager server management features. The ES3000 offers a robust chassis, triple redundant power and superior hardware diagnostics with a proprietary backplane and an EISA-bus backplane compatible with most communications and network adapters. The Unisys PW2 Advantage Series SFE 510010 and Advanced Logic Research's Revolution Q-4SMP 100 Pentium servers, both priced around \$50,000, were also evaluated but could not compare to the Compaq or Tricord machines in terms of reliability, performance and management features.

TEXT:

Despite mandates from the executive suite, many wary glass-house types continue to resist the push to downsize. This reluctance can often be traced to earlier frustrations with previous PC-class servers that offered little redundancy, scant management, puny storage capacity, and underpowered operating systems. However, the latest generation of high-end, multiprocessor PC servers is rapidly abating the lack of adequate hardware.

IS managers won't want to take the multiprocessor plunge without the benefit of serious performance gains and enterprise-style manageability. Of the systems tested by PC Week Labs, the Unisys Corp. PW2 Advantage Series SFE 510010 and Advanced Logic Research Inc. Revolution Q-4SMP 100, both of which cost about \$50,000 as tested, satisfied neither of these criteria in a way that would justify approximately \$20,000 in savings over the machine that did--Compaq Computer Corp.'s ProLiant 4000 Model 5/100. Mean while, at about \$192,000 as tested--and in a completely different league--the Tricord Systems Inc. ES3000 HR/5100C satisfies those criteria and is poised to offer mainframe-class users the features they want.

More than just a motherboard in a tower case, all four units we reviewed included four 100MHz Pentium processors, caching hardware RAID (Redundant Arrays of Inexpensive Disks) controllers, multiple power supplies and fans, and ECC (error checking and correcting) memory.

Tricord's ES3000 shows its mini-mainframe heritage with its massive chassis, triple redundant power supplies, end-to-end parity checking, and excellent remote hardware diagnostics. Though the backplane is proprietary, the ES3000's EISA-bus subsystem handles standard network or communications adapters and runs most standard operating systems. At \$192,115 (as tested), Tricord's direct competition is more likely Hewlett-Packard Co.'s HP 9000 series or Digital Equipment Corp.'s VAX line.

However, Tricord is announcing this week a new four-processor system that is targeted more directly at Compaq's ProLiant.

Compaq has managed to push the EISA-based ProLiant 4000's performance to new levels. In our tests, the ProLiant consistently ran neck and neck with the ES3000. In addition, Compaq's Insight Manager, which is included in the price of the server, continues to set the standard for in-band and out-of-band server management. However, housing all of the ProLiant's disk drives in external cabinets takes its toll on floor space. At \$71,454 (as tested), the ProLiant 4000 will certainly fit the needs of a majority of organizations.

ALR's Q-4SMP and its cousin, the Unisys SFE (which the company OEMs from ALR), are more traditional PC-class servers. Both included Mylex DAC960 EISA RAID controllers, 16M bytes of RAM, and hot-swappable disk drives. In addition, ALR's optional Conner-based drive cages and 1-inch high drives make it possible to fit up to 15 drives in the server. Except for color and front-panel design, both the Q-4SMP and SFE cases were identical.

Neither the ALR nor Unisys servers include any built-in hardware diagnostics. The performance turned in by these systems was drastically lower than that of the Compaq or Tricord and can be attributed to a poor system design that caused a bottleneck for data flowing to and from EISA-bus devices (see story, Page 84).

Scalability

Our test configuration of 512M bytes of RAM maxed out the Compaq ProLiant's memory capacity. The other three systems could handle up to 1G byte of RAM. Even though each server uses separate chips to perform the ECC functions, the Tricord ES3000 was the only machine that couldn't use off-the-shelf 72-pin SIMMs (single in-line memory modules).

All of the servers reviewed can be configured with one to four processors. Despite the debate over how many CPUs is enough, Tricord has announced a new dual-CPU-capable processor board along with the new ES12000, which will support up to 12 CPUs and a four-channel SCSI controller that can handle 60 drives. Given the sizable investment the ES3000 requires, we applaud Tricord's growth-path philosophy. However, we have our doubts as to whether the 64-bit PowerBus architecture will have enough horsepower to keep up with the load generated by 60 drives and 12 CPUs.

Compaq expects to migrate toward a clustered-server approach in the future, rather than adding more CPUs to the architecture. Likewise, ALR will stick with a four-processor configuration for the time being.

We appreciated the ALR Q-4SMP's drive cages for their space-saving design, and those in the Tricord ES3000 for their ability to handle many different drive sizes. In the ProLiant 4000, Compaq relegates all of its disks to external cabinets.

For sheer disk expansion space, Tricord's colossal half-a-terabyte ceiling should satiate the most ravenous users. Compaq quotes a more modest, though still impressive, 147G bytes as the ProLiant's maximum capacity. ALR storage capacity tops out at 80G bytes, and the Unisys peaks at 22G bytes.

Performance

In addition to testing these systems as application servers, we also used ServerBench 2.0's Network test and Disk test to evaluate basic file-and-print performance. What we found were two distinct levels of performance. The Tricord ES3000 and Compaq ProLiant both displayed exemplary throughput, while the ALR and Unisys servers only achieved about half of the others' overall performance numbers.

We were quite surprised to find that the theoretical advantage of

Tricord's Wide-Differential SCSI drives and controller was for naught; the Compaq ProLiant outpaced the Tricord at the lower client loads we imposed. In fact, Compaq's server bested the Tricord by as much as 20 percent near the 12-client load.

However, at more than about 36 clients, we did see evidence that our client load may not have fully taxed the ES3000, and it beat the ProLiant by more than 30 percent when we reached 60 active clients.

The ProLiant also consistently beat the ES3000 by about 10 percent in the Network test. Again, ALR's Q-4SMP and Unisys' SFE posted much lower results (see chart, Page 78).

We used the ServerBench 2.0 System test to assess each machine's performance as an application server. The Compaq system again beat the Tricord (see chart, above) for absolute numbers, especially at three CPUs. However, the ES3000 held a slight edge on overall smoothness of scalability from one to four processors.

Compaq was the only vendor that supplied a 2M-byte secondary-processor cache, which is really a hybrid of 512K-byte L2 and 2M-byte (which Compaq dubs L3) cache. Both Compaq and Tricord, however, have test results showing significant benefits in TPC-B style tests.

The ALR and Unisys servers showed reasonable results in the overall test but would have performed better if not for the system-bottleneck problems.

In ServerBench 2.0 processor tests, all four systems showed remarkably good scaling. In fact, the numbers were so good, we believe the test may not be fully stressing the processor-memory bus enough for us to discern the differences among them.

Management

Without question, Compaq's Insight Manager server-management system is the most complete implementation available. Showing a fine mix of software and hardware prowess, Insight Manager provides a wealth of information. Unfortunately, under Windows NT, we weren't able to get our management console to see the server using IPX, even after calling Compaq and trying three different clients.

Insight Manager now offers Version Control, which uses a reference **database** to check the server's critical software and **firmware** to ensure that it's up-to-date. Also, the **program** supports many alerts.

Tricord's IMS (Intelligent Management System) is a hardware/software system that provides direct connect or dial-up access for monitoring, diagnosing, and controlling the ES3000, even when it's dead. Company officials claim in-band management will come later this year.

Unlike Compaq's Insight Manager, IMS focuses solely on the hardware and provides no network-operating-system-level statistics. Using a serial cable connected to the Windows-based console PC, we could take the server off-line, run diagnostic tests on any of the individual boards, and even disable a CPU. IMS can also display real-time usage of the system bus, disk controller, and EISA subsystems.

Tricord includes a built-in PCMCIA modem that lets IMS dial a pager for alerts, as does Compaq's Insight Manager. However, whereas the ProLiant hardware is already instrumented to work with Insight Manager, Tricord's IMS costs close to \$10,000. Users only need to purchase Compaq's add-in card, Insight Manager R, if they require access to a dead system.

ALR's Q-4SMP doesn't offer any hardware instrumentation but did include an OEM version of HawkNet Inc.'s server-management product for NetWare, NetTune. Unisys included a copy of Visisoft Inc.'s VisiNet, a generic SNMP manager.

Fault tolerance

All four vendors supply ECC RAM in their servers. Tricord and Compaq also provide battery backup to sustain their SCSI controller caches in the event of a failure. The ES3000 goes one step further by mirroring the cache, as well.

We give a nod to ALR's Q-4SMP and Unisys' SFE for providing the most fans, with seven each. The Tricord included three fans, with sensors to detect failure and an air filter to reduce contamination. Compaq's ProLiant had three fans in the main chassis, which are also wired to detect a failure.

The two power supplies in the Q-4SMP and SFE each handle different loads, so losing either one means a system failure. Although Compaq doesn't use a load-sharing design in the ProLiant, it can fit two complete supplies

in one enlarged housing. During normal operation, the ProLiant uses only the primary power supply. When a failure occurs, however, the system is supposed to switch to the secondary power supply fast enough to maintain operations. The Tricord included three redundant load-sharing power supplies, which are hot-swappable.

In a PC Week Labs review of workgroup servers (see Nov. 14, 1994, Page N/5), three vendors--HP, Compaq, and IBM--provided PFA (Predictive Failure Analysis) of disk drives. In this rarefied arena of mission-critical enterprise servers, both the ProLiant and ES3000 provide PFA, and the vendors offer warranty replacement of drives that PFA determines are about to fail.

Serviceability

We found that despite its imposing size, the ES3000 was relatively easy to service; however, we still identified areas for improvement. When we raised the top panel of the Tricord's case to install the EISA network adapters, we experienced back pain from leaning over to look into the system. We also had to be careful not to lose any of the tiny screws in the cavities of the exposed chassis.

Modular components make it possible to repair an ES3000 in the field. This is a good thing, given that the server weighs almost 300 pounds. Also, the small, black rocker switches blended into the black front panel so well that we had to take care not to hit them lest we reboot the server or shut down a SCSI chain.

Curiously, the ES3000 has locking front and top doors, but we could remove more than \$50,000 worth of RAM from the rear with only a Phillips screwdriver. We could easily access the ProLiant's SIMM modules near the top of the motherboard, whereas the memory modules in the Q-4SMP and SFE hung upside down near the bottom of the units.

Because the ProLiant's disk drives reside in a separate cabinet, we didn't have to access the server cabinet to swap a drive. We also liked the compact disk-drive cages on the Q-4SMP but think they could benefit from a more secure locking mechanism.

However, the individual key locks on the SFE's drive cages were overkill. Both the ALR and Unisys servers also used inexpensive plastic door hinges and tiny wheels that buckled after several trips across our test lab. The Tricord's disk drives were easy to remove and replace. In addition, by removing a single front panel, we could pull out the individual processor and SCSI controller boards. However, the hot-swappable power supplies reside behind front- and rear-access plates that are screwed on, which made removing them slightly more difficult.

We were impressed with the completeness and flexible operating modes of the ProLiant's diagnostic software. The ES3000, however, goes even further by equipping the individual CPU and SCSI boards with RS-232C ports. By connecting a VT100 terminal to this port, each board can be thoroughly checked out.

Installation and setup

Compaq's SmartStart is the most helpful of the included setup utilities; however, we did run into difficulties. Although we had the latest version of SmartStart, our hardware was even more recently released, and the software refused to configure the system. Also, we'd like to see SmartStart lose its reliance on a mouse.

We installed Windows NT from the CD ROM included with the ProLiant, but it only allowed us to configure one of our four network adapters. Compaq officials said this stems from an earlier NT limitation and will be rectified in a future release of SmartStart.

The three remaining servers all used conventional EISA setup programs and separate software utilities to configure their drive arrays.

Take the Bench

ServerBench 2.0 is available for download from CompuServe and can be found in the Ziff-Davis Benchmark Operation (ZDBOp) section of our World-Wide Web server (www.ziff.com). Also, the benchmarks can be ordered directly from ZDBOp by mailing a request to 1 Copley Parkway, Morrisville, N.C., 27560 or faxing a request to (919) 380-2879.

System Design is Crucial to Multiprocessor Performance

There are some important elements that system designers must coordinate well if they want to reap the full benefits from today's hot processors.

For example, despite PC Week's best efforts to optimize performance,

the Advanced Logic Research Inc. Revolution Q-4SMP 100 and Unisys Corp. PW2 Advantage Series SFE 510010 servers turned in significantly lower test results than we had expected (see chart, Page 82).

The servers had trouble getting data to and from EISA devices.

This illustrates how a fast CPU is just one element necessary to produce good results in a multiprocessing server.

Good System Design Can Influence Performance

Design Element: Processor cache snooping and good cache coherency algorithms.

Benefit: Minimizes trips needed to slower DRAM.

Design Element: Good system-bus-to-expansion-bus architecture.

Benefit: Prevents stalling of system bus and wasting extra clock cycles.

Design Element: Proper buffer sizing between buses.

Benefit: Maximizes effective transfers from expansion bus.

Related article: Test methodology

For PC Week Labs tests, we defined enterprise servers as those machines that contain 512M bytes of RAM, 8G bytes of disk storage, and a dual-channel SCSI controller. As befitting this class of server, we asked the participating vendors--Advanced Logic Research Inc., Compaq Computer Corp., Tricord Systems Inc., and Unisys Corp.--to supply all of the high-availability features they currently offer, from ECC (error checking and correcting) RAM and redundant power supplies to hot-swappable disk drives and comprehensive management.

We installed and ran Microsoft Corp.'s Windows NT Server Version 3.5 on each of the servers. Both the Tricord ES3000 HR/5100C and the Compaq ProLiant 4000 Model 100 systems included their own HAL (Hardware Abstraction Layer), while ALR's Revolution Q-4SMP 100 and Unisys' PW2 Advantage Series SFE 510010 used NT's built-in MPS 1.1-compliant HAL.

We arranged the disk-drive space used for our tests in a striped (RAID 0) configuration. We used the NT File System but replaced the original NTFS.SYS driver with a new one that Microsoft released after we uncovered problems during our initial testing of NT 3.5 (see preview, Oct. 3, 1994, Page 123). We relocated NT's paging file to the faster striped drives and left its size at the default 523M bytes.

PC Week Labs installed four Eagle Technology NE3200 network adapter cards per server for testing uniformity. During installation, however, we discovered that NT 3.5 currently cannot handle shared level-triggered interrupts on some EISA adapters. (Microsoft says it's working on the problem.) We then attached 60 nodes through our Cabletron Systems Inc. MMAC-8 concentrator with 15 clients per segment. The clients were a mixture of 386- and 486-based PCs, running Microsoft Windows for Workgroups 3.11 and FTP S software Inc.'s PC/TCP 3.0. Only the TCP/IP protocol was loaded on the servers.

We used the new ServerBench 2.0 test for all testing. In the four-CPU configuration, we ran the servers through every test suite--Disk, Network, Processor, and System. We then repeated the System and Processor tests with three and two processors. When we reached a single-CPU configuration, we reinstalled NT 3.5 to use the uniprocessor HAL. Because the Tricord ES3000 includes only MP HAL, we used that when running the single-CPU test.

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SPECIAL FEATURES: illustration; photograph; table; graph

COMPANY NAMES: Compaq Computer Corp.--Products; Tricord Systems Inc.--

Products; Advanced Logic Research Inc.--Products; Unisys Corp.--Products

DESCRIPTORS: Hardware Multiproduct Review; File servers; Pentium-Based System

PRODUCT/INDUSTRY NAMES: 3573115 (Microcomputers)

SIC CODES: 3571 Electronic computers

TICKER SYMBOLS: CPQ; AALR; UIS

TRADE NAMES: Compaq ProLiant 4000 5/100 (Pentium-based system)--

Evaluation; Unisys PW2 Advantage SFE 510010 (Pentium-based system)--

Evaluation; Tricord Systems PowerFrame ES3000 HR/5100C (Pentium-based

system)--Evaluation; Advanced Logic Research Revolution Q-4SMP

(Pentium-based system)--Evaluation

FILE SEGMENT: CD File 275

37/9/7 (Item 7 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01044944 SUPPLIER NUMBER: 00662785
Software Escrow and the Security Practitioner.
Choney, Liliane
Computer Security Journal, v3, n1, p67-76
Summer, 1984
ISSN: 0277-0865 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

ABSTRACT: Most businesses do not have in-house software development capability and must rely on outside vendors to provide needed software. To provide contract security to both the software developer and the purchaser, software escrow can establish a third-party agent to preserve the **source code**, development tools, **database**, **firmware** and other materials. The form, content and stability of the software must be addressed in escrow provisions, and commitments must be made by both parties, resulting in a licensing agreement. number of potential problems are described, including insufficient security and monitoring, inadequate housing, poor escrow administration, and absence of standards for escrow confirmation and enforcement. Five case studies on software escrow are provided, as well as a diagram of the entire software escrow process.

37/3,K/1 (Item 1 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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02249552 SUPPLIER NUMBER: 53356021 (USE FORMAT 7 OR 9 FOR FULL TEXT)

A manager's guide to the Year 2000. (Industry Trend or Event)

Freeman, Leland G.

e-Business Advisor, 16(1)

Dec, 1998

LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2725 LINE COUNT: 00224

... tools can help identify affected code and analyze the impact of any potential failures.

* Data **repository** tools should be used to track each software **program** and **embedded chip** identified during the inventory process.

* Various data migration tools assist with data conversions and bridging...

37/3,K/2 (Item 2 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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02189005 SUPPLIER NUMBER: 20807228 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Hotlist: Practice management systems. (Market Source) (Buyers Guide)

Health Management Technology, v19, n7, p50(5)

June, 1998

DOCUMENT TYPE: Buyers Guide ISSN: 1074-4770 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3473 LINE COUNT: 00333

... Analysis tools, according to the company.

The IST Year 2000 Packs analyze desktop and LAN **databases** and spreadsheets. The CST Foundation/2000 test and analysis **program** verifies the hardware, **firmware** (BIOS) and operating system for the ability to operate effectively for Year 2000 and beyond...

37/3,K/3 (Item 3 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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02026859 SUPPLIER NUMBER: 19050460 (USE FORMAT 7 OR 9 FOR FULL TEXT)

WIND RIVER TEAMS WITH WILLOW ON REAL-TIME FOR NT.

Computergram International, n3084, pCGN01230002

Jan 23, 1997

ISSN: 0268-716X LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 289 LINE COUNT: 00026

TEXT:

...real-time support. Conversely, developers using Tornado can integrate any portion of existing Windows software **source code**, anything from **databases** and graphics to office tools, and so on, into their realtime **embedded system**. Products developed using Willows RT for Tornado are also portable across 68000, CPU32, PowerPC, 80960...

37/3,K/4 (Item 4 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01765981 SUPPLIER NUMBER: 16742870 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Pair of enterprise servers move to head of the class: Compaq, Tricord above average; ALR, Unisys below par. (Compaq ProLiant 4000 Model 5/100, Tricord Systems' ES3000 HR/5100C, Advanced Logic Research Revolution Q-4SMP 100 and Unisys PW2 Advantage Series SFE 510010) (includes related article on test methods) (Hardware Review) (Evaluation)

Katz, William F.
PC Week, v12, n12, p75(4)
March 27, 1995
DOCUMENT TYPE: Evaluation ISSN: 0740-1604 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2923 LINE COUNT: 00225

... and trying three different clients.

Insight Manager now offers Version Control, which uses a reference **database** to check the server's critical software and **firmware** to ensure that it's up-to-date. Also, the **program** supports many alerts.

Tricord's IMS (Intelligent Management System) is a hardware/software system that...

37/3,K/5 (Item 5 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01319441 SUPPLIER NUMBER: 07928662 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Indistinguishable from magic. (Editor's Notes) (column)
Hildebrand, J.D.
Computer Language, v6, n11, p5(2)
Nov, 1989
DOCUMENT TYPE: column ISSN: 0749-2839 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 1016 LINE COUNT: 00083

... out article ideas. The number is (415) 882-9915. Note that we do not make **source code** listings from articles available on the authors' BBS--it's strictly for contributors to COMPUTER LANGUAGE, AI Expert, **Database** Programming & Design, **Embedded Systems** Programming, UNIX Review, and LAN Magazine.

Finally: rush out and get a copy of The...

37/3,K/6 (Item 6 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01241313 SUPPLIER NUMBER: 06300639 (USE FORMAT 7 OR 9 FOR FULL TEXT)
CASE tools emerge to handle real-time systems. (graphical specification and design tools) (special report on CASE tools)
Falk, Howard
Computer Design, v27, n1, p53(14)
Jan 1, 1988
ISSN: 0010-4566 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 7748 LINE COUNT: 00615

... a host for Autocode. VAX is one of the standard machines on which compilers for **embedded systems** run.

System designers may use another CASE tool to specify the overall system **requirements**, including **data base** and real-time functions. Then Autocode can be used to implement the specifications. "We are...

37/3,K/7 (Item 7 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01044944 SUPPLIER NUMBER: 00662785
Software Escrow and the Security Practitioner.
Choney, Liliane
Computer Security Journal, v3, n1, p67-76
Summer, 1984
ISSN: 0277-0865 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: developer and the purchaser, software escrow can establish a

third-party agent to preserve the **source code**, development tools, **database**, **firmware** and other materials. The form, content and stability of the software must be addressed in...

37/3,K/8 (Item 1 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
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02222740 Supplier Number: 57237220 (USE FORMAT 7 FOR FULLTEXT)
Computer Technology Associates Creates National Internet Solutions Factory
--ISF-- Network.
Business Wire, p1507
Nov 4, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 405

... Inc.
Computer Technology Associates, Inc. (CTA) is an eBusiness solutions company with core competencies in **database** technology, hosted applications, electronic business, legacy system integration, **program** management consulting, security planning, custom manufacturing and **embedded systems** engineering.
CTA is an authorized reseller for Oracle (ORCL), Broadvision (BVSN) and numerous complementary internet...

37/3,K/9 (Item 2 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2004 The Gale Group. All rts. reserv.

02182213 Supplier Number: 55863683 (USE FORMAT 7 FOR FULLTEXT)
Developers Showcase the First 20 Innovative Solutions on Windows NT
Embedded At Embedded Systems Conference West.
PR Newswire, p3452
Sept 27, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 2611

... BIOS Adaptation Kit, the developer can rapidly bring up a board and configure the BIOS **firmware**. Over 400 BIOS options can be set without editing **source code** using the Adaptation Kit's BIOStart expert system and **knowledge base**. In addition, the new On-Line Adaptation Kit allows a developer to configure a custom...

37/3,K/10 (Item 3 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
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01894767 Supplier Number: 54839591 (USE FORMAT 7 FOR FULLTEXT)
Pervasive Software Announces Pervasive.SQL 2000 Database for PC
Environments.
Business Wire, p1047
June 9, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 988

... 2000 database for traditional PC deployments, Pervasive today announced a family of Pervasive.SQL 2000 **database** products that meet the specific footprint size and functionality **requirements** of three rapidly emerging market segments: smart cards, **embedded systems**, and mobile devices.

About Pervasive 2000
The new Pervasive 2000 family of products enables dramatically...

37/3,K/11 (Item 4 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2004 The Gale Group. All rts. reserv.

01825255 Supplier Number: 54073069 (USE FORMAT 7 FOR FULLTEXT)
CTSI Opens International Y2K Center.
Business Wire, p1093
March 11, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 594

... Low Impact Expansion(TM) solution, for use in assessing, converting and validating our clients' software **programs** ," Dr. Harden says. "Our rapidly growing **embedded - systems** business and its massive data **repository** of compliance information is also housed in the IRCC."
Kathleen Gallagher, CTSI's Vice President...

37/3,K/12 (Item 5 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2004 The Gale Group. All rts. reserv.

01320049 Supplier Number: 45930729 (USE FORMAT 7 FOR FULLTEXT)
Microrim to release R:BASE 5.5 for Windows and OS/2; 32-bit Windows relational database software now offers new graphical interface and design tools.
Business Wire, p11130161
Nov 13, 1995
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1061

... R:BASE Windows and OS/2 software, rather than an SQL shell typical of competitive **database** software **programs** . The **embedded software** enables users to use R:BASE and SQL commands interchangeably, and work nearly seamlessly between different **database programs** . All R:BASE features and **database** tools, such as Application Express, Reports and Forms Generators, and Query By Example (QBE), are...

37/3,K/13 (Item 6 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
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01300919 Supplier Number: 45783001 (USE FORMAT 7 FOR FULLTEXT)
Diab Data Inc. announces highly optimizing ColdFire Compiler Suites.
Business Wire, p9121050
Sept 12, 1995
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 584

... Family,'" said Jim Reinhart, manager of marketing and systems engineering for the Motorola High Performance **Embedded Systems** Division.

The new Compiler Suites include a compiler, a **program** profiler, an assembler, a linker and an **archiver** , as well as ANSI compliant libraries, a program checker and other utilities.

Optimizations specific to...

37/3,K/14 (Item 7 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
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01161049 Supplier Number: 42024985 (USE FORMAT 7 FOR FULLTEXT)
HONEYWELL AND MEASUREX JOINTLY DEVELOP INTEGRATION BETWEEN SYSTEMS
News Release, pl
April 23, 1991
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 567

... Measurex DIALOG is accomplished
through the Communication Link Module developed for Measurex, and
includes:

- * User data base
- * User program
- * Communication firmware
- * Gauging system interface device

Complementing the CLM, the Measurex Communication Module provides a:

- * Distributed control...

37/3,K/15 (Item 8 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
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01047003 Supplier Number: 40110936 (USE FORMAT 7 FOR FULLTEXT)
NEGRETTI AUTOMATION LAUNCH LOW COST VERSATILE PROCESS CONTROLLER
PR Newswire, pN/A
July 15, 1987
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 393

... easily understood by Plant and Process
Engineers.

The MPC 83 includes a 32K PROM memory **firmware** package, 16K EE PROM
for user application **programs** and 16K RAM Memory for **Data Base**
and
Sequence Editing. Two RS232/RS422 serial communication channels are
also included to enable the...

37/3,K/16 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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04442631 Supplier Number: 55899719 (USE FORMAT 7 FOR FULLTEXT)
MICROSOFT: Developers showcase innovative solutions on on Windows NT
Embedded at Embedded Systems Conference.
M2 Presswire, pNA
Sept 28, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 2841

... BIOS Adaptation Kit, the developer can rapidly bring up a board and
configure the BIOS **firmware**. Over 400 BIOS options can be set without
editing **source code** using the Adaptation Kit's BIOSstart expert system
and **knowledge base**. In addition, the new On-Line Adaptation Kit allows
a developer to configure a custom...

37/3,K/17 (Item 2 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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04199677 Supplier Number: 54921554 (USE FORMAT 7 FOR FULLTEXT)
PERVASIVE SOFTWARE: Pervasive Software announces Pervasive.SQL2000 database for PC environments.
M2 Presswire, pNA
June 16, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 917

... 2000 database for traditional PC deployments, Pervasive today announced a family of Pervasive.SQL 2000 **database** products that meet the specific footprint size and functionality **requirements** of three rapidly emerging market segments: smart cards, **embedded systems**, and mobile devices.

The new Pervasive 2000 family of products enables dramatically simplified development and...

37/3,K/18 (Item 3 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

03619956 Supplier Number: 47495273 (USE FORMAT 7 FOR FULLTEXT)
FORCE COMPUTERS: Force releases first in a series of support service packages for worldwide customers
M2 Presswire, pN/A
June 30, 1997
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 927

... the design engineer to quickly estimate whether a particular system configuration can fulfill the application **requirements**.

Firmware - SMART provides convenient access to FORCE products **firmware**. The latest two versions of FORCE PowerBoot, VMEProm, FGA-Boot, OpenBoot and systems BIOS are all on-line. **Archived** revisions are also available upon request.

Real Time Operating Systems - SMART contains product information and

...

37/3,K/19 (Item 4 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

02557140 Supplier Number: 45160103 (USE FORMAT 7 FOR FULLTEXT)
CRAVEN PLUG & PLAY BODY HANDS POLICING OF THE STANDARD OVER TO MICROSOFT
Computergram International, n2552, pN/A
Nov 25, 1994
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1067

... normally Flash memory as Electrically Erasable Programmable ROM is expensive and add an additional component **requirement** to the system. The Flash used for the plug and play BIOS and **Embedded System Configuration Database** storage is predominantly Intel Corp's Boot Block Flash, and hence Intel supports the programme...

37/3,K/20 (Item 5 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01624008 Supplier Number: 42498612 (USE FORMAT 7 FOR FULLTEXT)
IBM gets satellite-control work
Military Space, v8, n22, pN/A
Nov 4, 1991

Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 129

... involves four efforts: IBM's command-and-control engineering contract to provide hardware, software and **firmware** development; Unisys Defense Systems' computer **program** integration contract to provide network engineering and integration services; the CCS **database** portion of the Litton real-time data systems contract; and Lockheed's space test and...

37/3,K/21 (Item 6 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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01478053 Supplier Number: 42041041 (USE FORMAT 7 FOR FULLTEXT)
TurboCASE, VERSION 2.12
CASE Strategies, v3, n5, pN/A
May, 1991
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 3870

... producing a full range of application documentation. We think it is better suited for the **specification** of real-time and **embedded systems** than for **data - based** applications, although it does support data modeling and entity relationship diagramming. TurboCASE would be an...

37/3,K/22 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

06438402 Supplier Number: 54995003 (USE FORMAT 7 FOR FULLTEXT)
EPRI Y2K clarification.(correction to article about Year 2000 date change computer problem in February 1999 issue) (Correction Notice)
Power Engineering, v103, n5, p15(1)
May, 1999
Language: English Record Type: Fulltext
Article Type: Correction Notice
Document Type: Magazine/Journal; Trade
Word Count: 103

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...throughout the utility industry. To clarify, EPRI's Y2K Program consists of an industry-wide **database** of EPRI members' Y2K data and information, workshops, appropriate support of members' testing **programs** and contingency plan development, and further understanding of **embedded systems** issues. As such, the concept of cataloging chips was evaluated and dismissed because many of...

37/3,K/23 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06234954 Supplier Number: 54280095 (USE FORMAT 7 FOR FULLTEXT)
Year 2000 glitch presents problem of unprecedented scope for petroleum industry.
Rhodes, Anne
The Oil and Gas Journal, v97, n12, p6(1)
March 22, 1999
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 4809

... their experiences and the solutions they have found.

"We've developed a Year 2000 testing **database**," said Martin. "We've created a **repository** for our members to submit information on testing they have done, whether its software, hardware, **embedded systems**, process controllers, or net works."

Companies add the results of their testing **programs** to the **database**, thus enabling other companies in the industry to verify their own testing plans or test...

37/3,K/24 (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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01416849 Supplier Number: 41692233 (USE FORMAT 7 FOR FULLTEXT)
Air Force offers expert knowledge
Electronic Engineering Times, p24
Nov 26, 1990
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 132

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...Rome Air Development Center (Griffiss Air Force Base, N.Y.) uses the technology through its **Knowledge Based** Software Assistant (KBSA) **program** to reduce the life-cycle cost of large- **embedded software**.

37/3,K/25 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
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00699840
The Science of Software will be driven into the future by the maturation of underlying technology in the national productivity crisis, according to **International Data Corp.**
Computerworld November 23, 1981 p. 12

Key areas of current software development include programming language, structured techniques, **data base** management, operating systems, high-level software, **specification** methodologies, and hard or **embedded software**. Fortran is taking a precipitous plunge in popularity and is now barely ahead of PL...

37/3,K/26 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

10912365 SUPPLIER NUMBER: 54250927 (USE FORMAT 7 OR 9 FOR FULL TEXT)
What does IT want from security?(information technology)
Prokupets, Rudy D.
Security Management, 43, 3, 76(7)
March, 1999
ISSN: 0145-9406 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3641 LINE COUNT: 00305

... managers to accept an ISC on a corporate network, it must meet the following minimum **requirements**: 32-bit CPU architecture; TCP/IP protocol support; flash memory for **firmware**; support for a large local cardholder **database**; and support for a large number of readers and alarm panels.

* Microprocessor. An ISC must...

37/3,K/27 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

04577571 SUPPLIER NUMBER: 08157010 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Take a card...any card please! (direct marketing through the integration of
courtesy cards and front-end scanners) (includes a related article on
scanner vendors) (Retail)
Raphel, Murray
Direct Marketing, v52, n10, p63(6)
Feb, 1990
ISSN: 0012-3188 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 5552 LINE COUNT: 00439

... partial who's who doing what in the lineup of vendors and
consultants working with **database** and frequent shopper **programs** :
Advanced Promotion Technologies, Deerfield Beach, Florida. Customers
receive a Vision Value Club card with an **embedded microchip** . Customers
receive points for buying participating brands as well as die total amount
of their...

37/3,K/28 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01793799 04-44790
Government, industry work together on Year 2000 problem
Anonymous
Oil & Gas Journal Petroleum Software Guide Supplement PP: 10-11 Mar 1999
ISSN: 0030-1388 JRNL CODE: OGJ
WORD COUNT: 1182

...TEXT: their experiences and the solutions they have found.

"We've developed a Year 2000 testing **database** ," said Martin. "We've
created a **repository** for our members to submit information on testing
they have done, whether its software, hardware, **embedded systems** ,
process controllers, or networks."

Companies add the results of their testing **programs** to the **database** ,
thus enabling other companies in the industry to verify their own testing
plans or test...

37/3,K/29 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01706533 03-57523
Binding, migration, and scalability in CORBA
Henning, Michi
Communications of the ACM v41n10 PP: 62-71 Oct 1998
ISSN: 0001-0782 JRNL CODE: ACM
WORD COUNT: 6216

...TEXT: deal with details such as process creation and termination,
threads, and signals. This makes implementation **repositories** nonportable.

The CORBA **specification** permits ORB implementations for environments
ranging from **embedded systems** to global enterprise systems.
Implementation **repositories** need to provide functionality that must be
tailored for each environment, and it is not...

37/3,K/30 (Item 3 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

00662582 93-11803
**The analysis and design of embedded knowledge-based systems using box
structure methods**

Basu, Amit; Hevner, Alan R

Journal of Management Information Systems: JMIS v8n4 PP: 117-146 Spring 1992

ISSN: 0742-1222 JRNL CODE: JMI

WORD COUNT: 12203

...TEXT: as parts of a system's knowledge base stabilize, they can be replaced by conventional **programs** that are more efficient. Given our observation that conventional procedural **programs** are preferred wherever feasible, the ability to Support such redesign within **embedded systems** is a valuable feature.

3.4. COMMON SERVICES

This is a particularly useful principle in...

37/3,K/31 (Item 4 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00355637 87-14471

M.D. IPA Health Plan

Nalli, Gino A.

Health Care Financing Review Annual Supplement PP: 83-84 1986

ISSN: 0195-8631 JRNL CODE: HCF

...ABSTRACT: important, though, is the need to provide timely data necessary for management of the prepaid **program**. IPA's information system is an in-house interactive **data - based** MIS using the Honeywell Level DP-6 hardware and **firmware** from Ultimate Corp. The basic reference files are member, group, provider, procedure and diagnosis, and...

37/3,K/32 (Item 5 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00293648 85-34082

Using Database Machines in Embedded Computer Systems

Egyhazy, Csaba J.

Information & Management v8n4 PP: 197-203 Apr 1985

ISSN: 0378-7206 JRNL CODE: IFM

ABSTRACT: A discussion is presented concerning whether **database** machine technology addresses the needs of embedded computer systems. The interface between the **embedded system** and its environment is complex, asynchronous, and sometimes distributed; **embedded systems** are also likely to have stringent resource **requirements**. The **database** machine provides a potential solution to the complexity and the resource limitation. Functions are identified for 2 applications that the **embedded system** in general and the **database** machine specifically are asked to perform, and current **database** machine technology is evaluated given the **requirements** of these applications. Taking into account the primary requirements of data security and system throughput...

37/3,K/33 (Item 6 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00158158 81-28035

No Stopping Software, IDC Researcher Says

Hoard, Bruce

Computerworld v15n47 PP: 12 Nov 23, 1981

ISSN: 0010-4841 JRNL CODE: COW

...ABSTRACT: sources. Key areas of current software development, according

to Zachman, include programming language, structured techniques, **data base** management, operating systems, high-level software, **specification** methodologies, and 'hard' or **embedded software**. Quoting a recent IDC study on productivity, the research director said that in terms of new **program** development, Fortran is taking a precipitous drop in popularity. In addition, Cobol's share of...

37/3,K/34 (Item 1 from file: 813)
DIALOG(R)File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1422147 NETU005
Sybase and Wind River Systems Enable Enterprise Data Management for
Embedded Systems

DATE: February 16, 1999 03:01 EST WORD COUNT: 1,053

... UltraLite provides an analyzer technology that enables engineers to easily customize the capabilities of the **database** to match the **requirements** of an **embedded system**. Using the analyzer, engineers get optimum use of memory resources, generating an in-memory **database** as small as 50K. The end result is an embedded database optimized for fast data...

File 347:JAPIO Oct 1976-2003/Sep(Updated 040105)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200402

(c) 2004 Thomson Derwent

Set	Items	Description
S1	251036	(DRAWING? ? OR SCHEMATIC? ? OR BLUEPRINT? ? OR DIAGRAM? ? - OR SKETCH OR SKETCHES) (5N) (HARDWARE OR DEVICE? ? OR PARTS OR - ASSEMBLIES OR SUBASSEMBLIES OR UNIT OR UNITS OR MACHINE? ? OR CIRCUIT? ?)
S2	83023	(DRAWING? ? OR SCHEMATIC? ? OR BLUEPRINT? ? OR DIAGRAM? ? - OR SKETCH OR SKETCHES) (5N) (SEMICONDUCTOR? ? OR COMPONENT? ? OR COMPUTER? ? OR PC OR PCS OR WORKSTATION? ? OR WORK()STATION? ? OR TERMINAL? ?)
S3	4582	FIRMWARE OR FIRM()WARE OR EMBEDDED() (CHIP? ? OR MICROCHIP? ? OR PART? ? OR ELEMENT? ? OR MODULE? ? OR HARDWARE OR SOFTWA- RE OR SYSTEM? ?)
S4	362487	PROGRAM? ? OR (SOURCE OR APPLICATION) ()CODE? ?
S5	186225	SPECIFICATION? ? OR REQUIREMENT? ? OR DESIGN()DOCUMENT? ?
S6	37101	CONTRACT? ? OR PURCHAS??? (3N) (ORDER? ? OR AGREEMENT? ?)
S7	133076	DATABASE? ? OR DATA()BASE? ? OR REPOSITOR??? OR KNOWLEDGE(-)BASE? ? OR KNOWLEDGEBASE? ? OR ARCHIVE? ?
S8	0	S7 AND S1:S2 AND S3 AND S4 AND S5 AND S6
S9	2216	S7 AND S1:S2 AND S3:S6
S10	1769	S9 AND IC=G06F
S11	88	S7(10N)S1:S2(10N)S3:S6
S12	77	S11 AND IC=G06F

12/5/5 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

06178700 **Image available**
ESTIMATION AND DESIGN SUPPORT SYSTEM

PUB. NO.: 11-120249 [JP 11120249 A]
PUBLISHED: April 30, 1999 (19990430)
INVENTOR(s): TANAKA TOSHIJI
FUJITA TADAHIDE
APPLICANT(s): SUMITOMO HEAVY IND LTD
APPL. NO.: 09-287430 [JP 97287430]
FILED: October 20, 1997 (19971020)
INTL CLASS: G06F-017/60 ; G05B-015/02

ABSTRACT

PROBLEM TO BE SOLVED: To provide an estimation and design support system which can speedily generate an estimate for an equipment to be designed and manufactured individually according to specifications on the spot where the specifications are given.

SOLUTION: A computer is provided with a component model cost data base which can calculate costs from the kinds and sizes of components, a 3D-CAD assembly model data base which can generate a three-dimensional outside drawing from the kinds and sizes of the components, etc., and an estimation and design support PROG(program) is installed which determines the kinds and sizes of components needed to manufacture a device satisfying inputted specifications when the specifications are inputted, finds the outside drawing and price of the device by using databases, and displays them, thereby constituting the objective estimation and design support system 10.

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12/5/7 (Item 7 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

05337477 **Image available**
SPECIFICATION ALTERATION INFORMATION MANAGEMENT SYSTEM

PUB. NO.: 08-292977 [JP 8292977 A]
PUBLISHED: November 05, 1996 (19961105)
INVENTOR(s): IZUMISAWA TOMOO
APPLICANT(s): SEKISUI CHEM CO LTD [000217] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 07-098610 [JP 9598610]
FILED: April 24, 1995 (19950424)
INTL CLASS: [6] G06F-017/60
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)

ABSTRACT

PURPOSE: To provide a specification alternation information management system which can easily know the contents of specification alterations from the drawing number of a design drawing.

CONSTITUTION: The specification alteration information management system, which is equipped with input devices 1 and 2 and a display 3 and has an instruction generation mode for generating an alteration instruction and a retrieval mode for retrieval, is equipped with a controller 5 which generates the alteration instruction by showing the contents of specification alteration of a product in the instruction generation mode by inputting the specification alteration contents and the drawing number of the altered drawing through the input devices 1 and 2 and a data base 7 which stores the alteration instruction generated by the controller 5. In the retrieval mode, when the drawing number of the drawing

is inputted through the input devices 1 and 2, the controller 5 retrieves the alteration instruction corresponding to the inputted drawing number from the data base 7 and displays it on the display 3.

12/5/8 (Item 8 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

04848567 **Image available**
DESIGN SUPPORTING SYSTEM FOR COMPUTER SOFTWARE

PUB. NO.: 07-141167 [JP 7141167 A]
PUBLISHED: June 02, 1995 (19950602)
INVENTOR(s): MORIMATSU KOICHI
APPLICANT(s): MEIDENSHA CORP [000610] (A Japanese Company or Corporation),
JP (Japan)
APPL. NO.: 05-287860 [JP 93287860]
FILED: November 17, 1993 (19931117)
INTL CLASS: [6] G06F-009/06
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)

ABSTRACT

PURPOSE: To automatically detect an error in a system design drawing prepared by system design.

CONSTITUTION: In the case of preparing a system design drawing satisfying required **specification** analysis by a graphic editing function 1 and developing a **program** in order to support the design of **computer** software, the system design **drawing** is stored in a **data base** 2 and converted into design language expression data by a design language expression generating function 3 and the converted data are stored in a data base 4. A design language expression grammar inspecting function 5 inspects whether the system design drawing is correctly prepared or not by checking whether the design language expression data is matched with a style limiting grammar to be bound which is defined in a design describing language grammar file 6 or not.

12/5/10 (Item 10 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

04665870 **Image available**
CONFIRMATION ASSISTING DEVICE FOR DATA ANALYTIC DESIGN INFORMATION

PUB. NO.: 06-337770 [JP 6337770 A]
PUBLISHED: December 06, 1994 (19941206)
INVENTOR(s): KOO TOSHIYUKI
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 05-126761 [JP 93126761]
FILED: May 28, 1993 (19930528)
INTL CLASS: [5] G06F-003/14 ; G06F-003/14 ; G06F-009/06
JAPIO CLASS: 45.3 (INFORMATION PROCESSING -- Input Output Units); 45.1
(INFORMATION PROCESSING -- Arithmetic Sequence Units)

ABSTRACT

PURPOSE: To make verifying operation efficient by easily understanding the flow of data and the relation among data even in a complicated diagram.

CONSTITUTION: This device has a 1st design information retrieval part 7 which retrieves diagram information including data specified on a **specification** screen in a design information **data base** 1, a 1st confirmation information display control part 8 which displays the retrieved **diagram** information on a display **device** 3 while emphasizing specified data with a thick line, etc., a data structure retrieval part 9 which retrieves structure information regarding the specified data in a

data dictionary 2, a 2nd design information retrieval part 10 which retrieves diagram information including data relating to the data specified on the specification screen in the design information data base 1 on the basis of the retrieved data structure information, and a 2nd confirmation information display control part 11 which displays the diagram information retrieved by the 2nd design information retrieval part 10 on the display device 3 while emphasizing the data relating to the specified data with a thick line, etc.

12/5/14 (Item 14 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

03961075 **Image available**
BUILDING DESIGN SUPPORTING DEVICE

PUB. NO.: 04-326175 [JP 4326175 A]
PUBLISHED: November 16, 1992 (19921116)
INVENTOR(s): NAKAO KAZUHIRO
APPLICANT(s): HAABESUTO SYST KK [000000] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 03-095774 [JP 9195774]
FILED: April 25, 1991 (19910425)
INTL CLASS: [5] G06F-015/60
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications); 27.2 (CONSTRUCTION -- Building)
JAPIO KEYWORD: R002 (LASERS); R060 (MACHINERY -- Automatic Design); R101 (APPLIED ELECTRONICS -- Video Tape Recorders, VTR)
JOURNAL: Section: P, Section No. 1513, Vol. 17, No. 163, Pg. 106, March 30, 1993 (19930330)

ABSTRACT

PURPOSE: To save a place and a cost by shortening a time required for a design arrangement, and unnecessary building a model house and explaining about it, by using a work station for the design arrangement, and outputting and explaining not only a design drawing, but also a model, computer graphics picture, computer graphics animation.

CONSTITUTION: The above device is equipped with a work station 1, display device 7, inputting device 9, character printer 2, plotter 3, cutting machine 4 which cuts a thin plate for a model, color printer 5, and storage device 6. A building construction name, building form, retrieval key index data such as the plan of a house, CAD data of a building, computer graphics data of the building, image data of a building drawing, program for controlling the cutting machine 4, image data of the drawing of a facility part and perspective or the like, are turned into a data base, and recorded in the storage device 6.

12/5/40 (Item 18 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013905257 **Image available**
WPI Acc No: 2001-389470/200141
XRPX Acc No: N01-286488

Automatic diagrams updating method in logical network layout systems, involves combining graphics file with objects in database and extending graphics program to reflect changes in database

Patent Assignee: VISIONAEL CORP (VISI-N)
Inventor: FLANSBURG M C; MOOLA S S
Number of Countries: 025 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200073940	A1	20001207	WO 2000US14087	A	20000522	200141 B
US 6393432	B1	20020521	US 99325009	A	19990602	200239

Priority Applications (No Type Date): US 99325009 A 19990602

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200073940 A1 E 22 G06F-017/30

Designated States (National): BR CA IL JP KR MX

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE

US 6393432 B1 G06F-017/30

Abstract (Basic): WO 200073940 A1

NOVELTY - The graphic file from graphics program comprising vision is combined with a list of information associating graphical elements with objects within relational database. The graphics program is extended to reflect changes in database with graphics file and to respond to changes in database.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for automatic diagrams updating system for logical network layouts.

USE - For automatically updating diagram of logical network layout.

ADVANTAGE - Uses basic drawing **program** with underlying **knowledge base** instead of CAD diagram, does not require user to figure out in which cell in CAD **schematic** new **devices** and cabling are to be placed. Then enables easy designing of network changes and expansion.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of automatic diagrams updating method of logical network layouts.

pp; 22 DwgNo 5/7

Title Terms: AUTOMATIC; DIAGRAM; UPDATE; METHOD; LOGIC; NETWORK; LAYOUT; SYSTEM; COMBINATION; GRAPHIC; FILE; OBJECT; DATABASE; EXTEND; GRAPHIC; PROGRAM; REFLECT; CHANGE; DATABASE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

12/5/73 (Item 51 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010993100 **Image available**

WPI Acc No: 1996-490049/199649

XRPX Acc No: N96-412981

Automatic drawing production method of computer-aided design system used in factory - involves automatically producing component drawing corresp. to component database , based on selected design paper and produced specification field

Patent Assignee: SEKISUI CHEM IND CO LTD (SEKI)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8249371	A	19960927	JP 9555823	A	19950315	199649 B

Priority Applications (No Type Date): JP 9555823 A 19950315

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 8249371 A 6 G06F-017/50

Abstract (Basic): JP 8249371 A

The method involves selection of a design paper, after reading component **database** (S12), which suits a production purpose of a **drawing** corresp. to a **component** . An automatic production of a **specification** field (S14) such as paper frame, written remark field, component **database** and **specification** , is performed based on a concrete specification of both **databases** and selected design paper.

Automatic production of the computer-aided design figure (S16) is performed after production of the specification field.

ADVANTAGE - Prevents generation of mistake by collectively drawing and managing similar components since drawing of predetermined component applicable to database is automatically produced in CAD

system. Reduces required manpower due to automated production.

Dwg.1/6

Title Terms: AUTOMATIC; DRAW; PRODUCE; METHOD; COMPUTER; AID; DESIGN;
SYSTEM; FACTORY; AUTOMATIC; PRODUCE; COMPONENT; DRAW; CORRESPOND;
COMPONENT; DATABASE; BASED; SELECT; DESIGN; PAPER; PRODUCE; SPECIFICATION
; FIELD

Derwent Class: T01

International Patent Class (Main): G06F-017/50

File Segment: EPI

File 348:EUROPEAN PATENTS 1978-2004/Jan W02

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20031225,UT=20031218

(c) 2003 WIPO/Univentio

Set	Items	Description
S1	176136	(DRAWING? ? OR SCHEMATIC? ? OR BLUEPRINT? ? OR DIAGRAM? ? - OR SKETCH OR SKETCHES) (5N) (HARDWARE OR DEVICE? ? OR PARTS OR - ASSEMBLIES OR SUBASSEMBLIES OR UNIT OR UNITS OR MACHINE? ? OR CIRCUIT? ?)
S2	62892	(DRAWING? ? OR SCHEMATIC? ? OR BLUEPRINT? ? OR DIAGRAM? ? - OR SKETCH OR SKETCHES) (5N) (SEMICONDUCTOR? ? OR COMPONENT? ? OR COMPUTER? ? OR PC OR PCS OR WORKSTATION? ? OR WORK()STATION? ? OR TERMINAL? ?)
S3	14004	FIRMWARE OR FIRM()WARE OR EMBEDDED() (CHIP? ? OR MICROCHIP? ? OR PART? ? OR ELEMENT? ? OR MODULE? ? OR HARDWARE OR SOFTWA- RE OR SYSTEM? ?)
S4	203383	PROGRAM? ? OR (SOURCE OR APPLICATION) ()CODE? ?
S5	490027	SPECIFICATION? ? OR REQUIREMENT? ? OR DESIGN()DOCUMENT? ?
S6	38455	CONTRACT? ? OR PURCHAS??? (3N) (ORDER? ? OR AGREEMENT? ?)
S7	139515	DATABASE? ? OR DATA()BASE? ? OR REPOSITOR??? OR KNOWLEDGE(-)BASE? ? OR KNOWLEDGEBASE? ? OR ARCHIVE? ?
S8	837	INFORMATION()MANAGEMENT()SYSTEM? ?
S9	158	S7:S8(10N)S1:S2(10N)S3:S6
S10	115	S9 AND IC=G06F
S11	11	S10/TI,AB,CM
S12	104	S10 NOT S11
S13	57	S12 AND IC=G06F-017
S14	477	S12 NOT S13

13/5,K/8 (Item 8 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01251889

Extracting user-customized subsets of data from a central database
Extrahieren von durch den Benutzer personalisierten Datensätzen aus einer
zentralen Datenbank

Extraction de sous-sets de donnees personnalises par l'utilisateur d'une
base de donnees centrale

PATENT ASSIGNEE:

Point2 Internet Systems Inc., (3098580), 2917 Early Drive, Saskatoon,
Saskatchewan S7H 3K5, (CA), (Applicant designated States: all)

INVENTOR:

Wright, Eron, 715 Emerald Bay, Saskatoon, Saskatchewan S7J 4E3, (CA)
Willick, Barry, 438 Costigan Road, Saskatoon, Saskatchewan S7J 3P8, (CA)
Willick, Wendell, 642 Highland Crescent, Saskatoon, Saskatchewan S7H 4Y4,
(CA)

LEGAL REPRESENTATIVE:

Jackson, Richard Eric (62281), Carpmiels & Ransford, 43 Bloomsbury Square
, London WC1A 2RA, (GB)

PATENT (CC, No, Kind, Date): EP 1081608 A2 010307 (Basic)

APPLICATION (CC, No, Date): EP 307454 000830;

PRIORITY (CC, No, Date): US 385347 990830

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 1081608 A2

An apparatus, method and computer program is disclosed which allows for the extraction of user-customized subsets of data from a central database stored in a central server computer at a remote terminal computer. The user-customized data subset extracted is stored in a computer readable form, along with other corollary information such that the data contained in the subset can be viewed and used on the terminal or another computer in an offline state, without an active connection to said central database during viewing. The corollary information stored along with the extracted data subset can allow for the further personalized viewing of the extracted subset by more than one end user or viewer. Only the data selected by the authorized user of the central database is contained in the extracted subset.

ABSTRACT WORD COUNT: 131

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010307 A2 Published application without search report

Assignee: 020306 A2 Transfer of rights to new applicant: Point2
Technologies Inc. (3098581) 2917 Early Drive
Saskatoon, Saskatchewan S7H 3K5 CA

Withdrawal: 030924 A2 Date application deemed withdrawn: 20030301

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200110	1260
SPEC A	(English)	200110	9251
Total word count - document A			10511
Total word count - document B			0
Total word count - documents A + B			10511

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION on the data storage system (22)of the central server computer, which may or may not be related to the information stored in the item **specification database** (23).

Figure 3 is a block **diagram** of a preferred remote **terminal computer** (2) of the present invention which can be located at a remote

location from the central server computer (1). In the case of a distributed...

13/5,K/9 (Item 9 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01244095

Database design system, database design method and record medium
Datenbankentwurfssystem und -verfahren und Speichermedium
System et methode de conception de bases de donnees, et support
d'enregistrement

PATENT ASSIGNEE:

Shiraishi, Yoshikazu, (3097090), 3-3-25-102, Zoshigaya, Toshima-ku, Tokyo
, (JP), (Applicant designated States: all)
Shiraishi, Toshiko, (3097100), 3-3-25-102, Zoshigaya, Toshima-ku, Tokyo,
(JP), (Applicant designated States: all)

INVENTOR:

Shiraishi, Yoshikazu, 3-3-25-102, Zoshigaya, Toshima-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

Jacobson, Claude et al (41831), Cabinet Lavoix 2, Place d'Estienne
d'Orves, 75441 Paris Cedex 09, (FR)

PATENT (CC, No, Kind, Date): EP 1076303 A1 010214 (Basic)

APPLICATION (CC, No, Date): EP 402290 000814;

PRIORITY (CC, No, Date): JP 99228419 990812; JP 9120000401 000217; JP
6320002346 000802

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 1076303 A1

Integration and extraction of created E-R diagram, and addition and deletion of screen to be processed, form, functional specification are performed efficiently and accurately. Data items in a screen/form are extracted from a screen/form to be processed, and temporary entities are created. The created entities are aggregated to form a normalized entity. A correspondence matrix table which indicates a correspondence relationship between the normalized entity and each screen/form is created. Based on the correspondence matrix table, a relationship matrix table 30 which indicates a relationship between normalized entities is created for each screen/form. Further, based on the relationship matrix table 30, an E-R diagram is created.

ABSTRACT WORD COUNT: 107

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010214 A1 Published application with search report

Examination: 010926 A1 Date of request for examination: 20010801

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200107	2792
SPEC A	(English)	200107	32610
Total word count - document A			35402
Total word count - document B			0
Total word count - documents A + B			35402

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION diagram on the basis of the second matrix table created for each data.

In accordance with the thirty-fourth aspect of the present invention, the **database design program** for creating the E-R **diagram** has been recorded on the **computer** readable recording medium. According to the **program**, the temporary entity is created by classifying the plurality of data including the key definition data and the data items corresponding

to the key definition...

13/5,K/12 (Item 12 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00942171

Parts selection apparatus and parts selection system with cad function
Teileauswahl-Vorrichtung und -System mit CAD-Funktion
Dispositif et systeme de selection de pieces avec fonction de CAO
PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,
Tokyo, (JP), (applicant designated states:
AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

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PATENT (CC, No, Kind, Date): EP 855655 A2 980729 (Basic)
EP 855655 A3 990428

APPLICATION (CC, No, Date): EP 98101179 980123;

PRIORITY (CC, No, Date): JP 9711550 970124

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: G06F-017/00 ; G06F-017/50

ABSTRACT EP 855655 A2

Since a plurality of electric CAD systems (CAD) 1 generate circuit diagram data with different data structures, input interface (IF) software (SOFT) implements processing for extracting predetermined item data used in parts selection SOFT from each CAD, and processing for adding data obtained by the parts selection SOFT to each CAD. The parts selection SOFT implements selection of parts, output of slips, and the like on the basis of the predetermined item data. Output IF-SOFT converts information associated with the selected parts output from the parts selection SOFT into a different data format used in the subsequent process, and outputs the converted information.

ABSTRACT WORD COUNT: 104

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 980729 A2 Published application (A1with Search Report
;A2without Search Report)

Search Report: 990428 A3 Separate publication of the European or
International search report

Change: 990428 A2 Obligatory supplementary classification
(change)

Examination: 991124 A2 Date of request for examination: 19990929

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9831	1855
SPEC A	(English)	9831	9892
Total word count - document A			11747
Total word count - document B			0
Total word count - documents A + B			11747

INTERNATIONAL PATENT CLASS: G06F-017/00 ...

... G06F-017/50

...SPECIFICATION corresponding to information of the selected parts to be used in practice) stored in BA intermediate data 13 into the format of the current target **circuit diagram** data and back-annotates the converted data.

<Connection Information Extraction Program 6> It extracts a net list from the target **circuit diagram** data, and outputs it to connection information 7.

(Parts selection Software)

<Parts selection Program 10> It searches a parts **database** 9 as the **database** server 1308 (Fig. 4) on the basis of reference symbols, rated values, and the like stored in the parts selection data 11 by the part...

13/5,K/15 (Item 15 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00517470

A knowledge base management system for an information reasoning apparatus
Wissensbasis-Managementsystem fur eine Informations-Schlussfolgerungsvorrichtung

Systeme de gestion d'une base de connaissances pour un dispositif de raisonnement informatique

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 510452 A2 921028 (Basic)
EP 510452 A3 930825
EP 510452 B1 980819

APPLICATION (CC, No, Date): EP 92106152 920409;

PRIORITY (CC, No, Date): JP 9195858 910425; JP 9197750 910426

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: G06F-009/44 ; G06F-017/30 ; G06F-017/60

CITED REFERENCES (EP A):

PATENT ABSTRACTS OF JAPAN vol. 16, no. 308 (P-1381)7 July 1992

IEEE TRANSACTIONS ON NUCLEAR SCIENCE vol. 36, no. 6, December 1989, NEW YORK, NY, US pages 2450 - 2458 JOON ON YANG ET AL 'A Diagnostic Expert System for the Nuclear Power Plant based on the Hybrid Knowledge Approach'

PROCEEDINGS OF THE 2ND INTERNATIONAL IEEE CONFERENCE ON TOOLS FOR ARTIFICIAL INTELLIGENCE 9 November 1990, HERNDON, VA, US pages 792 - 796 YONG-QING CHENG ET AL 'A Knowledge-Based Graphic Description Tool for Understanding Engineering Drawings';

ABSTRACT EP 510452 A2

A knowledge base management system for a rule-based expert system.

Reasoning predicates are generated from the raw primary data and stored in a secondary data storage (105) together with reasoning rules (106) to form the knowledge base (107).

It may be necessary to make changes to the format or nature of the primary input which may necessitate regeneration of parts of the secondary data.

Details of these changes are stored in the change registration section (103). The knowledge management section monitors access by the reasoning calculation section (108) to the knowledge base section (107). If an attempt is made to access secondary data affected by changes to the primary data, then that secondary data is re-generated by conversion section (104). Advantage dynamics updating of secondary data removes the need for time-consuming large-scale data regeneration. (see image in original document)

ABSTRACT WORD COUNT: 141

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 921028 A2 Published application (A1with Search Report ;A2without Search Report)
 Search Report: 930825 A3 Separate publication of the European or International search report
 Examination: 931222 A2 Date of filing of request for examination: 931022
 Examination: 971008 A2 Date of despatch of first examination report: 970821
 *Assignee: 980513 A2 Applicant (transfer of rights) (change): Mitsui Chemicals, Inc. (213644) 2-5, Kasumigaseki 3-chome, Chiyoda-ku Tokyo (JP) (applicant designated states: DE;FR;GB;IT;NL)
 *Assignee: 980513 A2 Previous applicant in case of transfer of rights (change): MITSUI PETROCHEMICAL INDUSTRIES, LTD. (213641) 2-5, Kasumigaseki 3-chome Chiyoda-ku Tokyo (JP) (applicant designated states: DE;FR;GB;IT;NL)
 Grant: 980819 B1 Granted patent
 Oppn None: 990811 B1 No opposition filed: 19990520

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9834	844
CLAIMS B	(German)	9834	718
CLAIMS B	(French)	9834	1010
SPEC B	(English)	9834	4736

Total word count - document A 0

Total word count - document B 7308

Total word count - documents A + B 7308

INTERNATIONAL PATENT CLASS: G06F-009/44 ...

... G06F-017/30 ...

... G06F-017/60

...SPECIFICATION like project process in which information on the constructions and the shapes of component parts of a design object and the connective relationships between the **component parts** are input as **drawings** into a **computer**, literal/numerical information on design conditions, **specifications** and the like are accumulated into an engineering **data base**, and these categories of information are accumulated as primary data in the computer.

However, it is difficult to use such primary data as an object...

00780536

METHOD AND SYSTEM FOR PROVIDING AN ENTERPRISE DATABASE

PROCEDE ET SYSTEME PERMETTANT DE FORMER UNE BASE DE DONNEES D'ENTREPRISE

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200113281 A2-A3 20010222 (WO 0113281)

Application: WO 2000US40664 20000817 (PCT/WO US0040664)

Priority Application: US 99377022 19990818

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: **G06F-017/30**

International Patent Class: **G06F-017/60**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 3655

English Abstract

Described is a novel relational database architecture that is adapted to storing information regarding the terms of one or more contracts, and the actions required to be performed under it. The database resides on a computer-readable storage medium as part of a multi-user computer network. By using simple subroutines readily apparent to one skilled in the computer arts, one can automatically generate alerts whenever an action needs to be performed. These alerts are then transmitted to users along the multi-computer network, appearing in an e-mail message that specifies the action, the individuals performing it, and the duties of each of these individuals. In this manner, one can ensure timely execution of the actions required under a contract.

French Abstract

L'invention concerne une nouvelle architecture de base de donnees relationnelle qui est concue pour stocker des informations concernant les termes d'un ou de plusieurs contrats, ainsi que les actions a mettre en oeuvre suivant les termes du/des contrat. La base de donnees reside sur un support de stockage lisible par ordinateur faisant partie d'un reseau d'ordinateurs multi-usagers. Au moyen de sous-programmes simples facilement comprehensibles pour une personne competente en informatique, il est possible de produire automatiquement des alarmes lorsqu'une action doit etre mise en oeuvre. Ces alarmes sont ensuite transmises aux usagers par le reseau multi-usagers sous la forme d'un message de courrier electronique specifiant l'action, les personnes qui la mettent en oeuvre et les taches de chacune de ces personnes. De cette maniere, on garantit que les actions requises par contrat sont executees en temps opportun.

Legal Status (Type, Date, Text)

Publication 20010222 A2 Without international search report and to be republished upon receipt of that report.

Examination 20010607 Request for preliminary examination prior to end of 19th month from priority date

Correction 20020801 Corrected version of Pamphlet: pages 1/4-4/4,
drawings, replaced by new pages 1/6-6/6; due to late
transmittal by the receiving Office
Republication 20020801 A2 Without international search report and to be
republished upon receipt of that report.
Correction 20020801 Corrected version of Pamphlet:
Search Rpt 20030103 Late publication of international search report
Republication 20030103 A3 With international search report.
Republication 20030103 A3 Before the expiration of the time limit for
amending the claims and to be republished in the
event of the receipt of amendments.

Main International Patent Class: **G06F-017/30**

International Patent Class: **G06F-017/60**

Fulltext Availability:

Detailed Description

Detailed Description

... a complex nature. A further understanding of the nature and advantages
of the invention may be realized by reference to the remaining portions
of the **specification** and the attached drawings.

BRIEF DESCRIPTION OF THE **DRAWINGS**

Fig. 1 illustrates a **computer** system suitable for use in conjunction
with the relational **database** of the invention.

Fig. 2 illustrates a computer network suitable for use in conjunction
with the relational database of the invention.

Fig. 3) illustrates a...

13/5,K/51 (Item 36 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00734778 **Image available**

DATABASE SYSTEM

SYSTEME DE BASE DE DONNEES

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200048094 A1 20000817 (WO 0048094)

Application: WO 2000GB375 20000208 (PCT/WO GB0000375)

Priority Application: GB 993022 19990210; EP 99304823 19990618

Designated States: US

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: **G06F-017/30**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 7669

English Abstract

A database system is disclosed for use in managing the requirements and design data produced during the engineering of a product such as a software system. The database system is capable of providing a link in the database between an element of the requirements data and an element of the design data. The links can be used to associate an individual requirement with the corresponding element of the design data and form part of the data structure in a database. When a database user is viewing or editing an element of data held in the database, the links enable the database system to display to the user the other elements of the stored data that are associated with the data being viewed. For example, if a user views a particular requirement they would also be able to identify the associated elements of the design data and to view those elements on giving an appropriate command.

French Abstract

L'invention concerne un systeme de base de donnees destine a etre utilise pour la gestion des donnees de type specifications et des donnees de conception produites au cours du developpement d'un produit, notamment un systeme logiciel. Le systeme de base de donnees est capable d'etablir un lien dans la base de donnees entre une donnee de type specifications et une donnee de conception. Ces liens, qui font partie de la structure des donnees dans la base de donnees, permettent d'associer chaque specification a la donnee de conception correspondante. Lorsque l'utilisateur d'une base de donnees visualise ou edite une donnee figurant dans la base, les liaisons permettent au systeme de base de donnees d'afficher pour le compte de l'utilisateur les autres donnees enregistrees qui sont associees aux donnees en cours de visualisation. Par exemple, si un utilisateur visualise une specification particuliere, ces liens permettent egalement d'identifier les donnees de conception qui lui sont associees, et de les visualiser grace a une commande appropriee.

Legal Status (Type, Date, Text)

Publication 20000817 A1 With international search report.

Publication 20000817 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Examination 20000928 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... Embodiments of the present invention are described below, by way of example only, with reference to the accompanying drawings in which.

Figure 1 shows a **schematic** view of a **computer** system embodying the invention;

Figure 2 is a functional block diagram of a **requirements** management **database** system implemented by the computer system of Figure 1;

Figure 3 is a diagrammatic representation of a production lifecycle;

Figure 4 shows the contents of a data...

...and

Figure 8 is a schematic representation of a graphical user interface produced by the computer system shown in Figure 2.

Figure 1 is a **schematic** of a **computer** system. The **computer** system includes a computer 100 which, as described below, is used to implement a **requirements** management **database** system. As will be described, the database system includes a data store. Access to the computer 100, and thus to the database system may be...

00566638 **Image available**

METHOD AND SYSTEM FOR RETURNED-MATERIAL CONTROL

PROCEDE ET SYSTEME POUR LE CONTROLE DE MATERIEL RENVOYE

Patent Applicant/Assignee:

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Inventor(s):

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FOGOROS Robert Ralph,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200030011 A1 20000525 (WO 0030011)

Application: WO 99US27146 19991116 (PCT/WO US9927146)

Priority Application: US 98192862 19981116

Designated States: AU BR CA DE JP KR MX SG AT BE CH CY DE DK ES FI FR GB GR

IE IT LU MC NL PT SE

Main International Patent Class: **G06F-017/60**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5373

English Abstract

A system for returned-material control includes a computer (30, 32, or 34) suitably programmed to provide a ledger (24) including an interface for facilitating input of selected data associated with returned-material, a technical report manager (26) including an interface for providing the technical engineer with access to selected data associated with returned-material, and a returned-material project manager (28) including an interface for providing management personnel with access to returned-material project data, including individual project status information, claim disposition information, and part failure data. The technical report manager (26) preferably includes a report assembler which aids the engineer in generating a standard format analysis report relating to the returned-material.

French Abstract

L'invention concerne un systeme de controle de materiel renvoye, qui comprend un ordinateur (30, 32 ou 34) convenablement programme pour fournir un registre (24) avec interface facilitant la saisie de differentes donnees associees au materiel renvoye, un gestionnaire de rapport technique (26) avec interface permettant a l'ingenieur technique d'acceder aux differentes donnees susmentionnees, et un gestionnaire de projet relatif au materiel renvoye (28) avec interface permettant au personnel charge de la gestion d'acceder aux donnees de projet relatif au materiel renvoye, y compris des donnees sur l'etat d'un projet particulier, des donnees relatives au traitement des reclamations, et des donnees relatives aux defaillances de pieces. Le gestionnaire de rapport technique (26) comprend de preference un assembleur de rapport qui aide l'ingenieur a etablir un rapport d'analyse de format standard concernant le materiel renvoye.

Main International Patent Class: **G06F-017/60**

Fulltext Availability:

Detailed Description

Detailed Description

... personal computer which is networked or otherwise interconnected with other computer/terminals as shown. In one embodiment, the system is programmed in a Microsoft Accessee **database** in a Microsoft WindowsO operating system. However, the system may be alternatively employed using any commercially available **database program** as hereinafter described.

Figure 2 is a flow **diagram** of the returned- **parts** management method employed in the system of the present invention. In employing the system 20, returned-material is collected and any data associated with the...

00482067

**METHOD AND SYSTEM FOR MANAGING INFORMATION USING A RELATIONAL DATABASE
PROCEDE ET SYSTEME DE GESTION D'INFORMATIONS A L'AIDE D'UNE BASE DE DONNEES
RELATIONNELLE**

Patent Applicant/Assignee:

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Inventor(s):

TEWKSBARY David E,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9913419 A1 19990318

Application: WO 98US18767 19980909 (PCT/WO US9818767)

Priority Application: US 97926149 19970909

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD

MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ

VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH

CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW

ML MR NE SN TD TG

Main International Patent Class: **G06F-017/30**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8673

English Abstract

A method and system for managing information by storing object data in a relational database. The method includes the steps of storing a separate data table in a relational database for each of a plurality of data types; associating a unique object identifier (OID) to an object; and defining the object using a plurality of data items. Each of the plurality of data items is one of the plurality of data types. After the object has been assigned an OID, the OID is associated with each of the plurality of data items defining the object. Each of the plurality of data items and the associated OID are stored in respective ones of the data tables according to data type.

French Abstract

La presente invention concerne un procede et un systeme de gestion d'informations consistant a stocker des donnees d'objet dans une base de donnees relationnelle. Ce procede consiste a stocker une table de donnees separee dans une base de donnees relationnelle pour chacun des differents type de donnees; a associer un identificateur d'objet unique (OID) a un objet; et a definir cet objet a l'aide de plusieurs elements de donnees. Chacun des differents elements de donnees correspond a l'un des differents types de donnees. Une fois un OID attribue a l'objet, cet OID est associe a chacun des differents elements de donnees definissant l'objet. Chaque element de donnees ainsi que l'OID qui leur est associe sont ensuite stockes dans les tables de donnees respectives en fonction du type de donnees.

Main International Patent Class: **G06F-017/30**

Fulltext Availability:

Detailed Description

Detailed Description

... application programs.

In one embodiment, the management system can manage objects containing information and files related to and created by computer-aided design (CAD) application **programs**. Such information and files can define various mechanical **components** and **assemblies** in **drawing** and/or part-list format. The management system can manage objects containing information and files created by one or more application **programs** such as CAD prograins, word processing programs, spreadsheet programs,

database programs, and generally any other kind of application program which creates computer files.